

Search Report

STIC Database Tracking Number: 236481

To: MICHAEL BERNSHTEYN

Location: REM-10D25

Art Unit: 1713

Friday, September 14, 2007

Case Serial Number: 10/540946

From: USHA SHRESTHA

Location: EIC1700

REM-4B28 / REM-4B31 Phone: (571)272-3519

usha.shrestha@uspto.gov

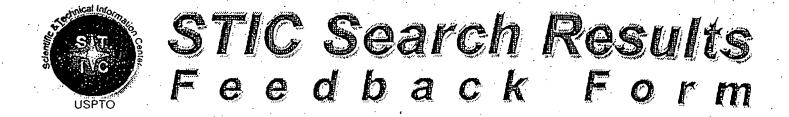
Search Notes **

Examiner BERNSHTEYN:

Please see the search results, feel free to contact me if you have any questions or if you like to refine the search query. Thank you for using STIC services!

Regards, Usha





EC17000

Questions about the scope or the results of the search? Contact the EIC searcher or contact:

Kathleen Fuller, EIC 1700 Team Leader 571/272-2505 REMSEN 4B28

AA	I am an examiner in Workgroup: Example: 1713 Relevant prior art found, search results used as follows:
	102 rejection
	103 rejection
	Cited as being of interest.
	Helped examiner better understand the invention.
	Helped examiner better understand the state of the art in their technology.
	Types of relevant prior art found:
	☐ Foreign Patent(s)
	 Non-Patent Literature (journal articles, conference proceedings, new product announcements etc.)
· >	Relevant prior art not found:
	Results verified the lack of relevant prior art (helped determine patentability).
	Results were not useful in determining patentability or understanding the invention.
. C	omments:

Access DB# <u>98648</u>(

SEP 0 5 Hold

SEARCH REQUEST FORM

Scientific and Technical Information Center

Pal. 81.
Requester's Full Name: Michael Bornuldey, Examiner #: 8/5/5 Date: 09/05/07 Art Unit: 17/3 Phone Number 30 272-14// Serial Number: 10/40,946
Art Unit: 17/3 Phone Number 30 272-94// Serial Number. 10/19/96 PAPED DISK F-MAIL
Mail Box and Bldg/Room Location: Roy 1002 Results Format Preferred (circle): PAPER DISK E-MAIL
If more than one search is submitted, please prioritize searches in order of need. ***********************************
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched.
The decide elected energies or structures, keywords synonyms, acronyms, and registry numbers, and combine with the concept of
utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.
Title of Invention: Alkeryl ether compound, polymer compound, composio
Title of Invention: Alvahyl ethor compound, polymer compound, composition Inventors (please provide full names): Koi chi Safo, Ikumo Navazawa, Sakae Sudo,
Masayuki Trogami, Kejichiro Tsubari, Ryuji Higashi, Keiro Jamag
Earliest Priority Filing Date. <u>05/08/2003</u>
For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the
appropriate serial number.
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present, if I and 2 a polymer compound compo
(1) according claims (and)
Jornulas (2) or (3); a block program of
units of
For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number. Please, try to Find alxeryl ether compound of Form (1) according claims 1 and 2; a polymer compound compound compound compound compounds of Formulas (2) or (3); a block polymer of Formulas (2) or (3); a block polymer of Formula (4) according claims 5-8.
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Thank you
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M. Bernskteyn

10

88

CLAIMS

- 1. An alkenyl ether compound comprising an aromatic carboxylic acid having a fluorine atom or an aromatic carboxylic acid ester having a fluorine atom.
- 2. The alkenyl ether compound according to claim 5 1, which is represented by the general formula (1):

$$XO (AO)_m B (D)_n COOR$$
 (1)

wherein X represents an alkenyl group; each A represents independently a linear or branched alkylene group of 1 to 15 carbon atoms which may be substituted; m represents an integer of 0 to 30; B represents a single bond or an alkylene group which may be substituted; each D represents independently an aromatic ring in which at least one hydrogen atom attached to the ring is replaced by a fluorine atom; n 15 represents an integer of 1 to 10; and R represents a hydrogen atom, an alkyl group which may be substituted, or an aromatic ring which may be substituted.

- 3. A polymer compound comprising a polyalkenyl ether repeating unit comprising at least one selected 20 from a carboxylic acid, a carboxylic acid ester and a carboxylic acid salt, each having a fluorine atom in a side chain thereof.
- 4. The polymer compound according to claim 3, 25 which has a repeating unit represented by the general formula (2) or (3):

wherein X' represents a polyalkenyl group; each A represents independently a linear or branched alkylene group of 1 to 15 carbon atoms which may be substituted;

5 m represents an integer of 0 to 30; B represents a single bond or an alkylene group which may be substituted; each D represents independently an aromatic ring in which at least one hydrogen atom attached to the ring is displaced by a fluorine atom; n represents an integer of 1 to 10; and R represents a hydrogen atom, an alkyl group which may be substituted, or an aromatic ring which may be substituted; or

$$- (X') - (OO-M)$$
O (AO)_m B (D)_n COO-M
(3)

wherein X' represents a polyalkenyl group; each A

represents independently a linear or branched alkylene
group of 1 to 15 carbon atoms which may be substituted;
m represents an integer of 0 to 30; B represents a
single bond or an alkylene group which may be
substituted; each D represents independently an

aromatic ring in which at least one hydrogen atom
attached to the ring is displaced by a fluorine atom; n
represents an integer of 1 to 10; and M represents a
monovalent or polyvalent metal cation.

- 5. A block polymer comprising a polyalkenyl ether repeating unit comprising an aromatic structure having a fluorine atom in a side chain thereof in at least one block segment.
- 6. The block polymer according to claim 5, wherein the aromatic structure is at least one selected from a carboxylic acid, a carboxylic acid ester and a carboxylic acid salt.
- 7. The block polymer according to claim 5,10 wherein the repeating unit is represented by the general formula (4):

-(x') -

- wherein X' represents a polyalkenyl group; each A represents independently a linear or branched alkylene group of 1 to 15 carbon atoms which may be substituted; m represents an integer of 0 to 30; B represents a single bond or an alkylene group which may be

 20 substituted; each D represents independently an aromatic ring in which at least one hydrogen atom attached to the ring is displaced by a fluorine atom; n represents an integer of 1 to 10; p represents 0 or 1; and COOR represents a carboxylic acid ester, a

 25 carboxylic acid, or a salt of a carboxylic acid anion and a cation.
 - 8. The block polymer according to claim 5,

5

further comprising a hydrophilic block segment and a hydrophobic block segment.

- 9. A composition comprising a solvent or dispersing medium, a functional substance, and the polymer compound set forth in claim 3 or the block polymer set forth in claim 5.
- 10. The composition according to claim 9, wherein the block polymer includes the functional substance.
- 11. The composition according to claim 10,10 wherein the functional substance is a coloring material.
 - 12. An image recording method comprising the steps of preparing the composition set forth in claim 11 and recording the composition on a medium.
- 13. An image recording apparatus comprising a
 15 recording means for recording the composition set froth in claim 11 on a medium.

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L5
                 STR
                      5
   2
        8
              3
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NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 8

STEREO ATTRIBUTES: NONE

L7 91 SEA FILE=REGISTRY SSS FUL L5

L11 32 SEA FILE=HCAPLUS ABB=ON PLU=ON L7

=> d l11 1-32 ibib ed abs hitstr hitind

L11 ANSWER 1 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2006:446255 HCAPLUS

DOCUMENT NUMBER:

144:469833

TITLE:

Image forming method, and set of ink compositions

and image forming apparatus, which are applicable

to the image forming method

INVENTOR(S):

Nakazawa, Ikuo; Sato, Koichi; Higashi, Ryuji; Suda, Sakae; Ikegami, Masayuki; Tsubaki, Keiichiro; Yamagishi, Keiko; Miyauchi, Youhei;

Oku, Tomoya

PATENT ASSIGNEE(S):

Canon Kabushiki Kaisha, Japan

SOURCE:

U.S. Pat. Appl. Publ., 15 pp., Cont.-in-part of

U.S. Ser. No. 557,236.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIN						D	DATE		į	APPL		DATE				
						-							_			
US 2006100310					A1	20060511			1	US 2	005-		20051221			
WO	WO 2005085370				A 1		2005	0915	1	WO 2	20	0050302				
	W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	ΒZ,	CA,
		CH,	CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,
		GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KG,	KP,	KR,
		KZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,
		MZ,	NA,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,
		SG,	SK,	SL,	SM,	SY,	ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,
		VC,	VN,	YU,	ZA,	ZM,	ZW									
	RW:	BW,	GH,	GM,	KΕ,	LS,	MW,	ΜZ,	NA,	SD,	SL,	SZ,	ΤZ,	UG,	ZM,	ZW,
		AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,
		DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	IS,	IT,	LT,	LU,	MC,
		ΝL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,
		GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG						
US 2006221117					A1		2006	1005	1	JS 2	20051117					

JP 2006205721 JP 2005-341119 20051125 Α 20060810 A 20040305 PRIORITY APPLN. INFO.: JP 2004-62968 20041227 JP 2004-376606 WO 2005-JP4031 20050302 US 2005-557236 A2 20051117 JP 2005-341119 A 20051125

ED Entered STN: 12 May 2006

AB An image forming method in which at least two kinds of ink compns. are applied onto a recording medium to form an image on the recording medium, comprises the steps of: providing a first ink composition containing a solvent, a coloring material and a block polymer having at least an anionic block segment for dispersing the pigment in the solvent, and a second ink composition containing a solvent, a dye and a polyvalent metal ion having reactivity with the block polymer; and applying the first ink composition and the second ink composition onto the recording medium to bring the first ink composition into contact with the second ink composition Thus, a block copolymer is formed by hydrolyzing diethylene glycol Me vinyl ether-Et 4-(2-vinyloxy)ethoxybenzoate-2-(4-methylphenoxy)ethyl vinyl ether diblock copolymer in aqueous NaOH at 0 °C for 3 days.

IT 864358-56-5

(ink-jet ink containing block copolymer)

RN 864358-56-5 HCAPLUS

CN Benzoic acid, 4-[2-(ethenyloxy)ethoxy]-2,3,5,6-tetrafluoro-, magnesium salt, polymer with [2-(ethenyloxy)ethoxy]-1,1'-biphenyl and 1-(ethenyloxy)-2-methylpropane, diblock (9CI) (CA INDEX NAME)

CM 1

CRN 864358-55-4 CMF C11 H8 F4 O4 . 1/2 Mg

$$\mathbf{H_2C} = \mathbf{CH} - \mathbf{O} - \mathbf{CH_2} - \mathbf{CH_2} - \mathbf{O}$$

●1/2 Mg

CM 2

CRN 800378-04-5 CMF C16 H16 O2 CCI IDS



 $D1-O-CH_2-CH_2-O-CH=-CH_2$

D1-Ph

CM 3

CRN 109-53-5 CMF C6 H12 O

i-BuO-CH-CH2

INCL 523160000; 523161000

42-12 (Coatings, Inks, and Related Products)

864358-54-3 **864358-56-5**

(ink-jet ink containing block copolymer)

L11 ANSWER 2 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2006:100313 HCAPLUS

DOCUMENT NUMBER:

144:202246

TITLE:

Monomer compositions, coating compositions, optical films, polarizers, and display devices

INVENTOR(S):

Yoshizawa, Masataka; Tomita, Hidetoshi Fuji Photo Film Co., Ltd., Japan

PATENT ASSIGNEE(S):

SOURCE:

Jpn. Kokai Tokkyo Koho, 53 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
JP 2006028409	Α	20060202	JP 2004-211657	20040720	
PRIORITY APPLN. INFO.:			JP 2004-211657	20040720	

ED Entered STN: 03 Feb 2006

AB The monomer and coating compns. comprise (A) F-containing polyfunctional monomers having ≥2 polymerizable groups and (B) hollow SiO2 fine particles. The optical films have cured layers of the compns. Antireflective films having the cured layers as low-refractive-index layers and ≥1 other functional layers are also claimed. The polarizers have the antireflective films at least as one of protective films. The display devices such as LCD and electroluminescent displays have the antireflective films or the polarizers as the outermost layers. The compns. give films with low refractive index and high scratch resistance.

IT 874907-29-6DP, polymers with propenyl-terminated siloxanes

(fluoro monomer compns. for scratch-resistant antireflective films in polarizers of displays)

RN 874907-29-6 HCAPLUS

1,3,5-Cyclohexanetricarboxylic acid, 1,2,2,3,4,4,5,6,6-nonafluoro-, CN triethenyl ester (9CI) (CA INDEX NAME)

IT 874907-29-6P

> (fluoro monomer compns. for scratch-resistant antireflective films in polarizers of displays)

RN 874907-29-6 HCAPLUS

1,3,5-Cyclohexanetricarboxylic acid, 1,2,2,3,4,4,5,6,6-nonafluoro-, CN triethenyl ester (9CI) (CA INDEX NAME)

$$H_2C = CH - O - C$$
 F
 F
 F
 $C - O - CH = CH_2$
 $C - O - CH = CH_2$
 $C - O - CH = CH_2$
 $C - O - CH = CH_2$

74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other CC Reprographic Processes)

Section cross-reference(s): 38, 73

194877-45-7DP, polymers with propenyl-terminated siloxanes IT 874907-29-6DP, polymers with propenyl-terminated siloxanes

874907-30-9DP, polymers with propenyl-terminated siloxanes

(fluoro monomer compns. for scratch-resistant antireflective films in polarizers of displays)

IT 874907-30-9P 874907-29-6P

(fluoro monomer compns. for scratch-resistant antireflective films in polarizers of displays)

L11 ANSWER 3 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:100198 HCAPLUS

DOCUMENT NUMBER: 144:202245

TITLE: Fluorine-containing polyfunctional monomer,

fluoropolymer, antireflection film and display

device

INVENTOR(S): Tomita, Hidetoshi; Yoshizawa, Masataka; Hosokawa,

Takashi; Ito, Takayuki

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 28 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent Japanese

LANGUAGE:

AGG MIM GOIDIE

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

:	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 2006028280	Α	20060202	JP 2004-206875	20040714
PRIOF	RITY APPLN. INFO.:			JP 2004-206875	20040714

ED Entered STN: 03 Feb 2006

AB The monomer with F content ≥35.0 weight% (of the mol. weight) has ≥3 polymerizable groups and its polymer has calculated mol. weight(M) between crosslinkins ≤300 [M is mol. weight of groups sandwiched between A and A, B and B, or A and B (A = C atom substituted with ≥3 C and/or Si; B = Si atom substituted with ≥3 C and/or Si)]. The antireflection film having low refractive layer formed. by curing a composition containing the monomer, and the display device using the film are also claimed. The film has low refractive index, hardness, abrasion and stain resistance.

IT 874907-31-0P

(crosslinked fluoropolymer for low refractive layer of antireflective film)

RN 874907-31-0 HCAPLUS

CN 1,3,5-Cyclohexanetricarboxylic acid, 1,2,2,3,4,4,5,6,6-nonafluoro-, triethenyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 874907-29-6 CMF C15 H9 F9 O6

$$H_2C = CH - O - C$$
 F
 F
 F
 F
 $C - O - CH = CH_2$
 $C - O - CH = CH_2$
 $C - O - CH = CH_2$

IT 874907-29-6P

(preparation and polymerization of)

RN 874907-29-6 HCAPLUS

CN 1,3,5-Cyclohexanetricarboxylic acid, 1,2,2,3,4,4,5,6,6-nonafluoro-, triethenyl ester (9CI) (CA INDEX NAME)

$$H_2C = CH - O - C$$
 $H_2C = CH - O - CH = CH_2$
 $H_2C = CH - O - CH = CH_2$
 $H_2C = CH - O - CH = CH_2$
 $H_2C = CH - O - CH = CH_2$
 $H_2C = CH - O - CH = CH_2$
 $H_2C = CH - O - CH = CH_2$
 $H_2C = CH - O - CH = CH_2$

CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 38

IT **874907-31-0P** 874907-32-1P 874907-34-3P 874907-36-5P

874907-38-7P 874907-40-1P

(crosslinked fluoropolymer for low refractive layer of antireflective film)

IT 874907-29-6P 874907-30-9P

(preparation and polymerization of)

L11 ANSWER 4 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2005:1004837 HCAPLUS

DOCUMENT NUMBER:

143:288093

TITLE:

Apparatus and method for jet-printing with

two-package inks sets

INVENTOR(S):

Sato, Koichi; Nakazawa, Ikuo; Higashi, Ryuji;

Suda, Sakae; Ikegami, Masayuki; Tsubaki,

Keiichiro; Yamagishi, Keiko

PATENT ASSIGNEE(S):

Canon Kabushiki Kaisha, Japan PCT Int. Appl., 88 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	TENT :	NO.		KIN	DATE			APPL	ICAT	DATE						
WO	WO 2005085370					A1 20050915			,	 WO 2	005-	20050302				
	W:	ΑE,	AG,	AL,	AM,	AT,	ΑU,	ΑZ,	BA,	BB,	ВG,	BR,	BW,	BY,	ΒZ,	CA,
		CH,	CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,
		GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	ΙL,	IN,	IS,	JP,	KG,	ΚP,	KR,
		ΚZ,	LC,	LK,	LR,	LS;	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,
		MZ,	NA,	NI,	NO,	ΝZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,
		SG,	SK,	SL,	SM,	SY,	ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	ŪĠ,	US,	UZ,
		VC,	VN,	ΥU,	ZA,	ZM,	ZW									
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,
		AM,	AZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,
		DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,	IS,	IT,	LT,	LU,	MC,
		NL,	PL,	PT,	RO,	SE,	sī,	SK,	TR,	BF,	вJ,	CF,	CG,	CI,	CM,	GA,
		GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG	•	•	•	•	•	•
JP	2005	2803!	52	•	A	·	2005	1013		JP 2	005-	5799	7		2	0050302
US	2006	2211:	17	•	A1		2006	1005	1	US 2	005-	5572	36		2	0051117
us	2006	1003	10		A1		20060	0511	1	US 2	005-3	3125	13		20	0051221
PRIORIT	Y APP	LN.	INFO	. :					,	JP 2	004-6	52968	3	1	A 2	0040305
									,	JP 2	004-3	3766	06	1	A 2	0041227

WO 2005-JP4031

W 20050302

US 2005-557236

A2 20051117

JP 2005-341119

A 20051125

ED Entered STN: 16 Sep 2005

AB In an image forming method which imparts two or more kinds of liquid compns. onto a recording medium to form an image on the recording medium, the image forming method has the steps of: preparing a plurality of liquid compns. which include at least a first liquid composition containing a

colorant, an anionic amphiphilic polymer and a liquid medium and a second liquid composition containing a colorant, a polyvalent cation, an anionic

amphiphilic polymer and a liquid medium; at least one of the polymers in the first liquid composition and the polymers in the second liquid composition being

a block polymer or a graft polymer; and imparting the first liquid composition and the second liquid composition onto the recording medium to bring

the first liquid composition and the second liquid composition into contact with

each other to cause at least one of these liquid compns. to thicken. This system provides images with good fixing performance and decreased color blurring. In a typical example, 1 ink contained C.I. Pigment Red 122 3, 200:30 iso-Bu vinyl ether (I)-Na 4-(2-vinyloxyethoxy) benzoate diblock copolymer 5, diethylene glycol (II) 15, and water 178 parts and the 2nd ink contained Mogul-L black pigment 3, diblock copolymer (100:15 A/B blocks, A block contains I and 1-biphenyloxy-2-vinyloxyethane and B block is based on Mg 4-(2-vinyloxyethoxy) benzenesulfonate) 5, II 15, and water 178 parts.

IT **864358-56-5P**, 1-Biphenyloxy-2-vinyloxyethane-isobutyl vinyl ether-magnesium 4-(2-vinyloxyethoxy)-2,3,5,6-tetrafluorobenzoate diblock copolymer

(apparatus and method for jet-printing with two-package inks sets having anionic amphiphilic polymers in both inks and polyvalent cations in 1 ink for decreasing color blurring)

RN 864358-56-5 HCAPLUS

CN Benzoic acid, 4-[2-(ethenyloxy)ethoxy]-2,3,5,6-tetrafluoro-, magnesium salt, polymer with [2-(ethenyloxy)ethoxy]-1,1'-biphenyl and 1-(ethényloxy)-2-methylpropane, diblock (9CI) (CA INDEX NAME)

CM 1

CRN 864358-55-4 CMF C11 H8 F4 O4 . 1/2 Mg

$$_{\rm H_2C}$$
 = CH- O- CH₂- CH₂- O $_{\rm F}$

●1/2 Mg

CM 2

CRN 800378-04-5 CMF C16 H16 O2 CCI IDS



 $D1-O-CH_2-CH_2-O-CH=-CH_2$

D1-Ph

CM 3

CRN 109-53-5 CMF C6 H12 O

i-BuO-CH-CH2

IC ICM C09D011-00

ICS B41M005-00; B41J002-21

CC 42-12 (Coatings, Inks, and Related Products)

IT 805326-36-7P, Isobutyl vinyl ether-sodium 4-(2-vinyloxyethoxy) benzoate diblock copolymer 805326-38-9P, Isobutyl vinyl ether-sodium 6-(2-vinyloxyethoxy) hexanoate diblock copolymer 805326-46-9P, 2-Ethoxyethyl vinyl ether-sodium 4-(2-vinyloxyethoxy) benzoate diblock copolymer 864358-54-3P, 1-Biphenyloxy-2-vinyloxyethane-isobutyl vinyl ether-sodium 5-(2-vinyloxyethoxy) isophthalate diblock copolymer 864358-56-5P, 1-Biphenyloxy-2-vinyloxyethane-isobutyl vinyl ether-magnesium 4-(2-vinyloxyethoxy)-2,3,5,6-tetrafluorobenzoate diblock copolymer 864358-58-7P, 1-Biphenyloxy-2-vinyloxyethane-isobutyl vinyl ether-magnesium 4-(2-vinyloxyethoxy) benzenesulfonate diblock copolymer 864358-59-8P, 1-Biphenyloxy-2-vinyloxyethane-

isobutyl vinyl ether-2-methoxyethyl vinyl ether-sodium

4-(2-vinyloxyethoxy)benzoate triblock copolymer 864358-60-1P,

2-(4-Methylphenoxy)ethyl vinyl ether-sodium 4-(2-

vinyloxyethoxy) benzoate diblock copolymer 864358-61-2P,

1-Biphenyloxy-2-vinyloxyethane-isobutyl vinyl ether-2-methoxyethyl vinyl ether-sodium 4-(2-vinyloxyethoxy)benzenesulfonate triblock

copolymer 864358-62-3P, 1-Biphenyloxy-2-vinyloxyethane-diethylene

glycol methyl vinyl ether-isobutyl vinyl ether-sodium 4-(2-vinyloxyethoxy)benzenesulfonate triblock copolymer

(apparatus and method for jet-printing with two-package inks sets having anionic amphiphilic polymers in both inks and polyvalent cations in

1 ink for decreasing color blurring)
CE COUNT: 5 THERE ARE 5 C

REFERENCE COUNT:

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2005:587459 HCAPLUS

DOCUMENT NUMBER:

143:106470

TITLE:

Liquid crystal compositions, compounds with low refractive index anisotropy therefor, polymers and polymer compositions therefrom, films and articles

therefrom, and displays therewith

INVENTOR (S):

Kato, Takashi; Ito, Maiko

PATENT ASSIGNEE(S):

Chisso Corp., Japan; Chisso Petrochemical

II

Corporation

SOURCE:

Jpn. Kokai Tokkyo Koho, 72 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese ·

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
JP 2005179557	A	20050707	JP 2003-424376	20031222	
PRIORITY APPLN. INFO.:			JP 2003-424376	20031222	

ED Entered STN: 08 Jul 2005

Ι

GI

$$R? - (A-Z)_m - A-R?$$
 $R? - Y - (A-Z)_m - A-R?$

AB Claimed are compds. Ra(AZ)mARb (I) or RcY(AZ)mARb (II) [Ra = Rd2C:C(Rd)O, Rd2C:C(Rd)CO, Rd2C:C(Rd)CO2, oxiranyl, Q1, Q2 [Rd = H, halo, (halogenated) C1-5 alkyl; all Rd ≠ H]; Rb = H, halo, CF3, CF2H, CFH2, OCF3, OCF2H, NCO, NCS, (halogenated) C1-20 alkyl; CH2 in the alkyl may be substituted with O, S, CO, CO2, OCO, CH:CH, CF:CF, or C.tplbond.C; Rc = Rd2C:C(Rd)O, Rd2C:C(Rd)CO, Rd2C:C(Rd)CO2, oxiranyl, Q1, Q2 [Rd = H, halo, (halogenated) C1-5 alkyl]; A = 1,4-cyclohex(en)ylene, 1,4-phenylene, tetrahydronaphthalene-2,6-diyl, bicyclo[2.2.2]octane-1,4-diyl [in the rings, CH2 and CH: may be substituted with O and N:, resp.; H may be substituted with halo, C1-5 (halo)alkyl]; Y = C1-20 alkylene; CH2 may be substituted with O, S, CO2, OCO; Z = single bond, (CH2)n, O(CH2)n, (CH2)nO, O(CH2)nO, CH:CH,

C.tplbond.C, CO2, OCO, (CF2)2, C.tplbond.CCO2, OCOC.tplbond.C, CH:CH(CH2)2, (CH2)2CH:CH, CF:CF, C.tplbond.CCH:CH, CH:CHC.tplbond.C, OCF2, CF2O [n = 1-20; m = 1-6; with the proviso that when m = 1 or 2, Rc = acryloxy, and A = 1,4-phenylene and Z = OCO in AZ next to Y, then Rb ≠ alkyl(oxy)]]. Liquid crystal compns. containing plural polymerizable compds. including the above are also claimed. The compns. may also contain liquid-crystalline nonpolymerizable compds. Polymers and polymer compns. prepared from I and/or II (or the liquid crystal compns.) and having [Rd2CC(Rd)O], [Rd2CC(Rd)CO], [Rd2CC(Rd)CO2], (CH2CHO), [CH2C(Rd)CH2O], and/or Q3 units are useful for films (e.g., alignment layers) or articles (e.g., optical retarders), showing good optical anisotropy, heat resistance, and mech. strength. Liquid crystal displays containing the polymers or the polymer compns. are also claimed.

IT 857071-79-5 857072-45-8 857073-87-1

(liquid crystalline monomers; liquid crystal compns./polymers from polymerizable compds. with low refractive index anisotropy useful for LCD retarders or alignment layers)

RN 857071-79-5 HCAPLUS

CN Benzoic acid, 3,4-difluoro-, (trans,trans)-4'-(ethenyloxy)[1,1'-bicyclohexyl]-4-yl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

$$H_2$$
COO

RN 857072-45-8 HCAPLUS

CN Benzoic acid, 4-[(trans,trans)-4'-(ethenyloxy)[1,1'-bicyclohexyl]-4-yl]-2,6-difluoro-, 4-(difluoromethyl)phenyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

PAGE 1-A

PAGE 2-A

RN

857073-87-1 HCAPLUS
Benzoic acid, 4-[(trans,trans)-4'-[3-(ethenyloxy)propyl][1,1'-bicyclohexyl]-4-yl]-2-fluoro-, 3-fluoro-4-(trifluoromethyl)phenyl CNester (9CI) (CA INDEX NAME)

Relative stereochemistry.

PAGE 1-A

PAGE 2-A

IC ICM C08F020-22 C07C043-192; C07C049-577; C07C069-54; C07C069-75; C07C069-78; ICS C07D301-14; C07D303-22; C08F020-30; C09K019-38; G02F001-13 CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes) Section cross-reference(s): 35, 38, 73 IT 857071-20-6 857071-21-7 857071-22-8 857071-24-0 857071-26-2 857071-28-4 857071-30-8 857071-31-9 857071-33-1 857071-35-3 857071-37-5 857071-38-6 857071-40-0 857071-42-2 857071-44-4 857071-45-5 857071-47-7 857071-49-9 857071-50-2 857071-51-3 857071-56-8 857071-53-5 857071-55-7 857071-57-9 857071-59-1 857071-61-5 857071-62-6 857071-63-7 857071-65-9 857071-67-1 857071-69-3 857071-71-7 857071-72-8 857071-73-9 857071-74-0 857071-76-2 857071-77-3 857071-78-4 857071-79-5 857071-80-8 857071-81-9 857071-82-0 857071-83-1 857071-84-2 857071-85-3 857071-86-4 857071-87-5 857071-88-6 857071-89-7 857071-90-0 857071-92-2 857071-93-3 857071-94-4 857071-95-5 857071-97-7 857071-99-9 857072-00-5 857072-01-6 857072-02-7 857072-05-0 857072-03-8 857072-04-9 857072-06-1 857072-07-2 857072-08-3 857072-11-8 857072-09-4 857072-10-7 857072-12-9 857072-15-2 857072-16-3 857072-13-0 857072-14-1 857072-17-4 857072-21-0 857072-20-9 857072-22-1 857072-18-5 857072-19-6 857072-25-4 857072-26-5 857072-27-6 857072-28-7 857072-24-3 857072-29-8 857072-30-1 857072-31-2 857072-32-3 857072-34-5 857072-35-6 857072-36-7 857072-37-8 857072-38-9 857072-39-0 857072-41-4 857072-42-5 857072-43-6 857072-44-7 857072-40-3 857072-45-8 857072-46-9 857072-47-0 857072-48-1 857072-50-5 857072-49-2 857072-51-6 857072-52-7 857072-53-8 857072-54-9 857072-55-0 857072-57-2 857072-56-1 857072-58-3 857072-59-4 857072-60-7 857072-61-8 857072-62-9 857072-63-0 857072-64-1 857072-65-2 857072-66-3 857072-67-4 857072-68-5 857072-70-9 857072-69-6 857072-71-0 857072-72-1 857072-73-2 857072-74-3 857072-75-4 857072-76-5 857072-77-6 857072-78-7 857072-79-8 857072-80-1 857072-81-2 857072-83-4 857072-82-3 857072-84-5 857072-85-6 857072-86-7 857072-87-8 857072-88-9 857072-89-0 857072-90-3 857072-91-4 857072-92-5 857072-93-6 857072-98-1 857072-94-7 857072-95-8 857072-96-9 857072-97-0 857072-99-2 857073-00-8 857073-01-9 857073-02-0 857073-03-1 857073-04-2 857073-06-4 857073-07-5 857073-05-3 857073-08-6 857073-09-7 857073-10-0 857073-11-1 857073-12-2 857073-13-3 857073-14-4 857073-15-5 857073-16-6 857073-17-7 857073-18-8 857073-19-9 857073-20-2 857073-21-3 857073-22-4 857073-23-5 857073-24-6 857073-25-7 857073-26-8 857073-27-9 857073-28-0 857073-29-1 857073-30-4 857073-31-5 857073-32-6 857073-33-7 857073-36-0 857073-34-8 857073-35-9 857073-37-1 857073-38-2 857073-39-3 857073-40-6 857073-42-8 857073-41-7 857073-43-9 857073-44-0 857073-45-1 857073-47-3 857073-46-2 857073-48-4 857073-49-5 857073-50-8 857073-51-9 857073-52-0 857073-53-1 857073-54-2 857073-55-3 857073-56-4 857073-57-5 857073-58-6 857073-59-7 857073-60-0 857073-61-1 857073-62-2 857073-63-3 857073-64-4 857073-65-5 857073-67-7 857073-68-8 857073-66-6

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857073-69-9
                   857073-70-2
                                 857073-71-3
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                                                             857073-73-5
                                 857073-76-8
                                               857073-77-9
     857073-74-6
                   857073-75-7
                                                             857073-78-0
                                                             857073-83-7
     857073-79-1
                   857073-80-4
                                 857073-81-5
                                               857073-82-6
     857073-84-8
                   857073-85-9
        (liquid crystalline monomers; liquid crystal compns./polymers from
        polymerizable compds. with low refractive index anisotropy useful
        for LCD retarders or alignment layers)
IT
     857073-86-0 857073-87-1 857073-88-2
                                             857073-89-3
     857073-90-6
                   857073-91-7
                                 857073-92-8
                                               857073-93-9
                                                             857073-94-0
                   857073-96-2
                                 857073-97-3
                                               857073-98-4
                                                             857073-99-5
     857073-95-1
                                 857074-02-3
                                               857074-03-4
                                                             857074-04-5
     857074-00-1
                   857074-01-2
     857074-05-6
                   857074-06-7
        (liquid crystalline monomers; liquid crystal compns./polymers from
        polymerizable compds. with low refractive index anisotropy useful
        for LCD retarders or alignment layers)
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L11 ANSWER 6 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2004:1059435 HCAPLUS

DOCUMENT NUMBER:

142:40237

TITLE:

Liquid compositions, pH-sensitive inks, method and

apparatus using them

INVENTOR(S):

Sato, Koichi; Nakazawa, Ikuo; Suda, Sakae;

Ikegami, Masayuki; Tsubaki, Keiichiro; Higashi,

Ryuji; Yamagishi, Keiko

PATENT ASSIGNEE(S):

Canon Kabushiki Kaisha, Japan

SOURCE:

PCT Int. Appl., 72 pp.

CODEN: PIXXD2

DOCUMENT TYPE: LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	PATENT NO.						KIND DATE			API	LIC	DATE					
WO	WO 2004106440		A1	-	20041209		WO 2004-JP7467							20040525			
	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BE	, B	G,	BR,	BW,	BY,	ΒZ,	CA,
		CH,	CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM	I, D	Ζ,	EC,	EE,	EG,	ES,	FI,
		GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	II	, II	Ν,	IS,	KE,	KG,	KΡ,	KR,
		ΚZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MΑ	., M	D, :	MG,	MK,	MN,	MW,	MX,
		ΜŻ,	NA,	NΙ,	NO,	NZ,	OM,	PG,	PH,	PL	, P	Г,	RO,	RU,	SC,	SD,	SE,
		SG,	SK,	SL,	SY,	TJ,	TM,	TN,	TR,	$\mathbf{T}\mathbf{T}$	', T	Z,	UA,	ŪĠ,	US,	UΖ,	VC,
		VN,	YU,	ZA,	ZM,	zw											
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	ΜZ,	NA,	SD), S	L, ,	SZ,	TZ,	ŪĠ,	ZM,	ZW,
		AM,	AZ,	BY,	KG,	ΚZ,	MD,	RU,	ΤJ,	TM	I, A	Г,	BE,	BG,	CH,	CY,	CZ,
		DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU	, II	Ε,	IT,	LU,	MC;	NL,	PL,
		PT,	RO,	SE,	SI,	SK,	TR,	BF,	ВJ,	CF	', C	3, '	CI,	CM,	GΑ,	GN,	GQ,
		GW,	ML,	MR,	NE,	SN,	TD,	TG									
JP	2005	28166	50		Α		2005	1013	JP 2004-146884							2	0040517
US	2006	14608	37		A1		2006	0706	•	US	200	5 - 5	3778	88		2	0050606
PRIORITY	APPI	LN.	INFO	. :			•			JP	2003	3 - 1	4941	L9	1	A 2	0030527
									ı	JP	2004	4-6	2967	7 .	1	A 2	0040305
									1	JP	2004	4-1	4688	34	1	A 2	0040517
									,	wo	2004	4 - J	P746	57	V	v 2	0040525

ED Entered STN: 10 Dec 2004

AB A liquid composition set is suitable for jet printing for forming an image or pattern by functional substances such as a colorant without causing

blurring. Each of the liquid compns. of the set comprises a functional substance, an amphiphilic block copolymer or graft copolymer having an organic acid group, and a liquid medium, wherein the organic acid groups of the copolymers are different in pKa, and the amphiphilic polymer contained in the first liquid composition becomes viscous by pH change on contact with the second liquid composition different in pH from the first liquid composition

IT 805326-42-5P

(pH-sensitive ink-jet inks containing amphiphilic block copolymers with blurring resistance)

RN 805326-42-5 HCAPLUS

CN Benzoic acid, 4-[2-(ethenyloxy)ethoxy]-2,3,5,6-tetrafluoro-, sodium salt, polymer with 4-[2-(ethenyloxy)ethoxy]-1,1'-biphenyl and 1-(ethenyloxy)-2-methylpropane, diblock (9CI) (CA INDEX NAME)

CM 1

CRN 805326-41-4 CMF C11 H8 F4 O4 . Na

$$_{\rm H_2C}$$
 $=$ $_{\rm CH-O-CH_2-CH_2-O}$ $=$ $_{\rm F}$

Na

CM 2

CRN 102534-51-0 CMF C16 H16 O2

CM 3

CRN 109-53-5 CMF C6 H12 O

i-BuO-CH-CH2

IC ICM C09D011-00

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CC 42-12 (Coatings, Inks, and Related Products)
IT 805326-36-7P, Isobutyl vinyl ether-sodium 4-(2-vinyloxyethoxy)benzoate
diblock copolymer 805326-38-9P, Isobutyl vinyl ether-sodium
6-(2-vinyloxyethoxy)hexanoate diblock copolymer 805326-40-3P
805326-42-5P 805326-44-7P 805326-45-8P 805326-46-9P
(pH-sensitive ink-jet inks containing amphiphilic block copolymers with blurring resistance)
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE
RE FORMAT
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L11 ANSWER 7 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2004:996229 HCAPLUS

DOCUMENT NUMBER:

141:429628

TITLE:

Alkenyl ether polymer compound for ink and toner

compositions

INVENTOR(S):

Sato, Koichi; Nakazawa, Ikuo; Suda, Sakae;

Ikegami, Masayuki; Tsubaki, Keiichiro; Higashi,

Ryuji; Yamagishi, Keiko

PATENT ASSIGNEE(S):

Canon Kabushiki Kaisha, Japan

SOURCE:

PCT Int. Appl., 97 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT 1	NO.	KIN	DATE			APPL	DATE								
WO 2004	WO 2004099264				A1 20041118			 WO 2	004-	 JP63	 48		20040430		
W:	AE, AG,	AL,	AM,	ΑT,	AU,	AZ,	BA,	BB,	ВG,	BR,	BW,	BY,	ΒZ,	CA,	
	CH, CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DΖ,	EC,	EE,	EG,	ES,	FI,	
	GB, GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	ΚE,	KG,	ΚP,	KR,	
	KZ, LC,	LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	
	MZ, NA,	•	•	•		-	•		•	•	•	•	•	•	
	SG, SK,	-	-		TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	
	VN, YU,	•	•												
RW:	BW, GH,				•		•		•		•	•			
	AM, AZ,	•	•	-	•	•	•	•	•	-	-	•	•	•	
	DE, DK,						•		•					•	
	PT, RO,	-	-	-	-	-	BJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	
TD 2005/	GW, ML,	•	-	•	•			TD 0	004		0.5		_	0040406	
							JP 2004-130295 US 2005-540946								
PRIORITY APPI			AI		2006	0810								0050629	
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		•						TD 2	003-	3076	1 8	;	Δ 2	0030829	
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							Ī	WO 2	004-	JP634	48	1	W 2	0040430	

OTHER SOURCE(S): MARPAT 141:429628

ED Entered STN: 19 Nov 2004

GI

AB A polymer compound is provided which is suitable to improve the dispersibility of coloring materials or solids in an ink or toner composition and which has a repeating unit represented by the general formula I (X1 = polyalkenyl group; A = C1-15-alkylene; m = 0-30; B = single bond, alkylene; D = fluorine-substituted aromatic ring; n = 1-10; R = H, alkyl, aromatic).

796080-88-1DP, sodium carboxylate reaction products
796080-88-1P 796080-90-5P 796080-94-9P
796080-95-0P 796080-96-1DP, hydrolyzed reaction
products, carboxylic acid derivs.

(alkenyl ether polymer compound for ink and toner compns.)

RN 796080-88-1 HCAPLUS

CN Benzoic acid, 4-[2-(ethenyloxy)ethoxy]-2,3,5,6-tetrafluoro-, ethyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 796080-87-0 CMF C13 H12 F4 O4

RN 796080-88-1 HCAPLUS

CN Benzoic acid, 4-[2-(ethenyloxy)ethoxy]-2,3,5,6-tetrafluoro-, ethyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 796080-87-0 CMF C13 H12 F4 O4

$$\begin{array}{c} \text{F} & \overset{\text{O}}{\mid} \\ \text{C-OEt} \\ \text{H}_2\text{C} = \text{CH-O-CH}_2 - \text{CH}_2 - \text{O} \\ \end{array}$$

RN 796080-90-5 HCAPLUS

CN Benzoic acid, 4-[2-[2-(ethenyloxy)ethoxy]ethoxy]-2,3,5,6-tetrafluoro-,

ethyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 796080-89-2 CMF C15 H16 F4 O5

RN 796080-94-9 HCAPLUS

CN Benzoic acid, 4-[2-(ethenyloxy)ethoxy]-2,3,5,6-tetrafluoro-, ethyl ester, polymer with 4-[2-(ethenyloxy)ethoxy]-1,1'-biphenyl, diblock (9CI) (CA INDEX NAME)

CM 1

CRN 796080-87-0 CMF C13 H12 F4 O4

$$\mathbf{H_2C} = \mathbf{CH-O-CH_2-CH_2-O} \qquad \qquad \mathbf{F} \qquad \begin{matrix} \mathbf{O} \\ \mathbf{H} \\ \mathbf{C} \\ \mathbf{F} \end{matrix}$$

CM 2

CRN 102534-51-0 CMF C16 H16 O2

Ph
$$O-CH_2-CH_2-O-CH$$
 CH_2

RN 796080-95-0 HCAPLUS

CN Benzoic acid, 4-[2-(ethenyloxy)ethoxy]-2,3,5,6-tetrafluoro-, ethyl ester, polymer with 1-(ethenyloxy)-2-methylpropane and (2-methoxyethoxy)ethene, triblock (9CI) (CA INDEX NAME)

CM 1

CRN 796080-87-0 CMF C13 H12 F4 O4

$$\mathbf{H_2C} = \mathbf{CH-O-CH_2-CH_2-O} \qquad \mathbf{F} \qquad \mathbf{F}$$

CM 2

CRN 1663-35-0 CMF C5 H10 O2

 $MeO-CH_2-CH_2-O-CH$ CH_2

CM 3

CRN 109-53-5 CMF C6 H12 O

 $i-BuO-CH=CH_2$

RN 796080-96-1 HCAPLUS

CN Benzoic acid, 4-[2-(ethenyloxy)ethoxy]-2,3,5,6-tetrafluoro-, ethyl ester, polymer with 4-[2-(ethenyloxy)ethoxy]-1,1'-biphenyl and 1-(ethenyloxy)-2-methylpropane, triblock (9CI) (CA INDEX NAME)

CM 1

CRN 796080-87-0 CMF C13 H12 F4 O4

$$\begin{array}{c} \text{F} & \overset{\text{O}}{\parallel} \\ \text{C-OEt} \\ \text{H}_2\text{C} & \overset{\text{CH}}{=} \text{C-CH}_2 - \text{CH}_2 - \text{O} \\ \end{array}$$

CM 2

CRN 102534-51-0 CMF C16 H16 O2

CM 3

CRN 109-53-5 CMF C6 H12 O

 $i-BuO-CH-CH_2$

796080-92-7P 796080-94-9DP, hydrolyzed reaction products, carboxylic acid derivs.

(alkenyl ether polymer compound for ink and toner compns.)

RN 796080-92-7 HCAPLUS

CN Benzoic acid, 4-[2-(ethenyloxy)ethoxy]-2,6-difluoro-, ethyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 796080-91-6 CMF C13 H14 F2 O4

$$\begin{array}{c|c} F & O \\ \hline C - OEt \\ \\ H_2C = CH - O - CH_2 - CH_2 - O \end{array}$$

RN 796080-94-9 HCAPLUS

CN Benzoic acid, 4-[2-(ethenyloxy)ethoxy]-2,3,5,6-tetrafluoro-, ethyl ester, polymer with 4-[2-(ethenyloxy)ethoxy]-1,1'-biphenyl, diblock (9CI) (CA INDEX NAME)

CM 1

CRN 796080-87-0 CMF C13 H12 F4 O4

CM 2

CRN 102534-51-0 CMF C16 H16 O2

IT 796080-87-0P

(preparation of alkenyl ether polymer compound for ink and toner compns.)

RN 796080-87-0 HCAPLUS

CN Benzoic acid, 4-[2-(ethenyloxy)ethoxy]-2,3,5,6-tetrafluoro-, ethyl ester (9CI) (CA INDEX NAME)

IT 796080-89-2P 796080-91-6P

(preparation of alkenyl ether polymer compound for ink and toner compns.)

RN 796080-89-2 HCAPLUS

CN Benzoic acid, 4-[2-[2-(ethenyloxy)ethoxy]ethoxy]-2,3,5,6-tetrafluoro-, ethyl ester (9CI) (CA INDEX NAME)

$$\mathbf{H_2C} = \mathbf{CH} - \mathbf{O} - \mathbf{CH_2} - \mathbf{CH_2} - \mathbf{O} - \mathbf{CH_2} - \mathbf{CH_2} - \mathbf{O}$$

RN 796080-91-6 HCAPLUS

CN Benzoic acid, 4-[2-(ethenyloxy)ethoxy]-2,6-difluoro-, ethyl ester (9CI) (CA INDEX NAME)

```
H_2C= CH-O-CH_2-CH_2-O F
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IC ICM C08F008-00

ICS C08G065-00; C07C069-00

CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 38

TT 796080-88-1DP, sodium carboxylate reaction products 796080-88-1P 796080-90-5P 796080-94-9P 796080-95-0P 796080-96-1DP, hydrolyzed reaction

products, carboxylic acid derivs.

(alkenyl ether polymer compound for ink and toner compns.)

IT 143789-39-3P, Bisphenol A-dodecenylsuccinic acid-diethylene glycol-terephthalic acid-trimellitic acid copolymer

796080-92-7P 796080-94-9DP, hydrolyzed reaction products, carboxylic acid derivs. 796080-97-2P

(alkenyl ether polymer compound for ink and toner compns.)

IT 796080-87-0P

(preparation of alkenyl ether polymer compound for ink and toner compns.)

IT 123270-98-4P 796080-89-2P 796080-91-6P

(preparation of alkenyl ether polymer compound for ink and toner compns.)

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE

RE FORMAT

L11 ANSWER 8 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

3

ACCESSION NUMBER:

CORPORATE SOURCE:

2004:895271 HCAPLUS

DOCUMENT NUMBER:

142:55966

TITLE:

Reactions of aroyl chlorides with samarium metal in DMF-controllable syntheses of O-aroylbenzoins,

1,2-diarylethanones, and (Z)- α , α '-

stilbenediol dibenzoates

AUTHOR(S):

Liu, Yongjun; Wang, Xiaoxia; Zhang, Yongmin Department of Chemistry, Zhejiang University,

Hangzhou, Peop. Rep. China

SOURCE:

Synthetic Communications (2004), 34(21), 4009-4022

CODEN: SYNCAV; ISSN: 0039-7911

PUBLISHER:

Taylor & Francis, Inc.

DOCUMENT TYPE:

Journal English

LANGUAGE:

Fuditau

OTHER SOURCE(S):

CASREACT 142:55966

ED Entered STN: 27 Oct 2004

GI

AB Reduction of aroyl chlorides carried out in DMF with samarium metal has been studied. Samarium metal, which required not any intended activation or pretreatment, was found to react with aroyl chloride in a controllable manner. Correspondingly, O-aroylbenzoins, 1,2-diarylethanones, or $(Z)-\alpha,\alpha'$ -stilbenediol dibenzoates, e.g., I, were obtained as the major products under controlled conditions.

Ι

IT 811412-27-8P

(stereoselective preparation of α,α' -stilbenediol dibenzoates via samarium-promoted stereoselective reductive coupling of aroyl chlorides)

RN 811412-27-8 HCAPLUS

CN Benzoic acid, 4-fluoro-, (1Z)-1,2-bis(4-fluorophenyl)-1,2-ethenediyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

CC 25-18 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds) IT 1924-28-3P 26142-92-7P 26142-93-8P 26142-94-9P 26142-95-0P 26142-96-1P 86156-71-0P **811412-27-8P** (stereoselective preparation of α, α' -stilbenediol

(stereoselective preparation of α, α' -stilbenediol dibenzoates via samarium-promoted stereoselective reductive coupling of aroyl chlorides)

REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR

THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 9 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:894870 HCAPLUS

DOCUMENT NUMBER: 142:56738

TITLE: Highly fluorinated and crosslinkable dendritic

polymer for photonic applications

AUTHOR(S): Ma, Hong; Luo, Jingdong; Kang, Seok Ho; Wong,

Sharon; Kang, Jae Wook; Jen, Alex K.-Y.; Barto,

Rick; Frank, Curtis W.

CORPORATE SOURCE: Department of Materials Science and Engineering,

University of Washington, Seattle, WA, 98195, USA

SOURCE: Macromolecular Rapid Communications (2004),

25(19), 1667-1673

CODEN: MRCOE3; ISSN: 1022-1336 Wiley-VCH Verlag GmbH & Co. KGaA

DOCUMENT TYPE: Journal LANGUAGE: English

ED Entered STN: 27 Oct 2004

AB A novel crosslinkable dendritic polymer has been synthesized by the thermal polymerization of peripheral aryl trifluorovinyl ether moieties of a highly fluorinated dendrimer. The resulting perfluorocyclobutane(PFCB)-containing dendritic polymer exhibited excellent processability, low optical loss (0.36 dB · cm-1 at 1 310 nm with 1% dye doping), high thermal stability, and good solvent

resistance for waveguide-based photonic applications. IT 808197-06-0P

PUBLISHER:

(highly fluorinated and crosslinkable dendritic polymer for photonic applications)

RN 808197-06-0 HCAPLUS

CN Benzoic acid, 3,5-bis[[2,3,5,6-tetrafluoro-4-[[4[(trifluoroethenyl)oxy]benzoyl]oxy]-, [2,2,2-trifluoro-1(trifluoromethyl)ethylidene]di-4,1-phenylene ester, homopolymer (9CI)
(CA INDEX NAME)

CM 1

CRN 808197-05-9 CMF C93 H30 F34 O24

PAGE 1-A

PAGE 1-B

PAGE 2-A

PAGE 2-B

IT 808197-01-5P 808197-02-6P 808197-03-7P

808197-04-8P 808197-05-9P

(highly fluorinated and crosslinkable dendritic polymer for photonic applications)

RN 808197-01-5 HCAPLUS

CN Benzoic acid, 2,3,5,6-tetrafluoro-4-[[4-[(trifluoroethenyl)oxy]benzoyl]oxy]-, 2,2,2-trichloroethyl ester (9CI) (CA INDEX NAME)

$$F-C-O$$

$$CF_{2}$$

$$F$$

$$F$$

$$F$$

$$C-O-CH_{2}-CCl_{3}$$

RN 808197-02-6 HCAPLUS

CN Benzoic acid, 2,3,5,6-tetrafluoro-4-[[4-[(trifluoroethenyl)oxy]benzoyl]oxy]- (9CI) (CA INDEX NAME)

RN 808197-03-7 HCAPLUS

CN Benzoic acid, 3,5-bis[[2,3,5,6-tetrafluoro-4-[[4[(trifluoroethenyl)oxy]benzoyl]oxy]-, 2,2,2-trichloroethyl
ester (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

RN 808197-04-8 HCAPLUS

CN Benzoic acid, 3,5-bis[[2,3,5,6-tetrafluoro-4-[[4[(trifluoroethenyl)oxy]benzoyl]oxy]benzoyl]oxy]- (9CI) (CA INDEX NAME)

PAGE 1-A

$$F = C = O$$

$$C = O$$

PAGE 1-B

RN 808197-05-9 HCAPLUS
CN Benzoic acid, 3,5-bis[[2,3,5,6-tetrafluoro-4-[[4[(trifluoroethenyl)oxy]benzoyl]oxy]benzoyl]oxy]-, [2,2,2-trifluoro-1(trifluoromethyl)ethylidene]di-4,1-phenylene ester (9CI) (CA INDEX

NAME)

PAGE 1-A

PAGE 1-B

PAGE 2-A

PAGE 2-B

CC 35-4 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 73

IT 808197-06-0P

(highly fluorinated and crosslinkable dendritic polymer for photonic applications)

IT 1478-61-1P 134151-66-9P 562070-99-9P 808197-01-5P

808197-02-6P 808197-03-7P 808197-04-8P

808197-05-9P

(highly fluorinated and crosslinkable dendritic polymer for photonic applications)

REFERENCE COUNT:

34

THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 10 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2004:592474 HCAPLUS

DOCUMENT NUMBER:

141:256402

TITLE:

Identification of 4-Amino-4-deoxychorismate Synthase as the Molecular Target for the

Antimicrobial Action of (6S)-6-Fluoroshikimate

AUTHOR(S):

Bulloch, Esther M. M.; Jones, Michelle A.; Parker, Emily J.; Osborne, Andrew P.; Stephens, Elaine; Davies, Gareth M.; Coggins, John R.; Abell, Chris

CORPORATE SOURCE:

Department of Chemistry, University of Cambridge, University Chemical Laboratory, Cambridge, CB2

1EW, UK

SOURCE:

Journal of the American Chemical Society (2004),

126(32), 9912-9913

CODEN: JACSAT; ISSN: 0002-7863

PUBLISHER:

American Chemical Society

DOCUMENT TYPE:

Journal English

LANGUAGE:

Entered STN: 26 Jul 2004

(6S)-6-Fluoroshikimate has antimicrobial activity. The mol. basis of AB this effect had not been identified, but there was speculation that (6S)-6-fluoroshikimate is first converted in vivo into 2-fluorochorismate, which then could inhibit 4-amino-4-deoxychorismate synthase (ADCS). 2-Fluorochorismate was prepared from E-fluorophosphoenolpyruvate and erythose-4-phosphate by the sequential reactions of DAHP synthase, dehydroquinate synthase, dehydroquinase, shikimate dehydrogenase, EPSP synthase, and chorismate synthase. Inhibition studies on ADCS showed that it was inhibited rapidly and irreversibly by 2-fluorochorismate. Electrospray mass spectrometry of the inactivated enzyme showed an addnl. mass of 198±10 Da. A novel peptide of 1087.6 Da was identified in the HPLC trace for the tryptic digest of 2-fluorochorismate-inactivated ADCS. Sequencing of this peptide by MS/MS showed that the peptide corresponded to residues 272-279 with a modification of 206.1 Da on Lys-274. This observation is particularly exciting in the context of a recent proposal for the

170170-99-7, 2-Fluorochorismic acid IT

catalytic mechanism of ADCS.

(irreversible inactivation of 4-amino-4-deoxychorismate synthase by 2-fluorochorismate binding a Lys274 residue)

170170-99-7 HCAPLUS

CN 1,5-Cyclohexadiene-1-carboxylic acid, 3-[(1-carboxyethenyl)oxy]-2fluoro-4-hydroxy-, (3S,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

7-3 (Enzymes) CC

56-87-1, L-Lysine, biological studies TT 133398-72-8, (6S)-6-Fluoroshikimic acid 170170-99-7, 2-Fluorochorismic acid

> (irreversible inactivation of 4-amino-4-deoxychorismate synthase by 2-fluorochorismate binding a Lys274 residue)

REFERENCE COUNT:

THERE ARE 13 CITED REFERENCES AVAILABLE FOR 13 THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 11 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2004:153808 HCAPLUS

DOCUMENT NUMBER:

141:7490

TITLE:

Radical polyaddition reaction of

bis $(\alpha$ -trifluoromethyl- β , β -

difluorovinyl) 2,3,5,6-tetrafluoroterephthalate

AUTHOR (S):

Fujiwara, Hirotada; Narita, Tadashi; Hamana,

Hiroshi; Kurata, Ryo

CORPORATE SOURCE:

Graduate School of Engineering, Department of Materials Science and Engineering, Saitama Institute of Technology, Okabe, Saitama, 369-0293, Japan

SOURCE:

PUBLISHER:

Journal of Fluorine Chemistry (2004), 125(3),

381-389

CODEN: JFLCAR; ISSN: 0022-1139

Elsevier Science B.V.

DOCUMENT TYPE: LANGUAGE:

Journal English

Entered STN: 26 Feb 2004

To develop the radical polyaddn. of bisperfluoroisopropenyl esters to AB preparation of polymers bearing higher fluorine content, the polyaddn. reactivity of bis $(\alpha$ -trifluoromethyl- β , β -difluorovinyl) 2,3,5,6-tetrafluoroterephthalate [CF2:C(CF3)OCOC6F4COOC(CF3):CF2] (TFT) with 1,4-dioxane (DOX) and diethoxydimethylsilane (DEOMS) were described. The results of the model reactions of 2pentafluorobenzoxypentafluoropropene [CF2:C(CF3)OCOC6F5] (PFBP) with THF, DOX and DEOMS showed that the reactions took place almost quant. and the main products were mono-addition compound for THF and di-addition compds. for DOX and DEOMS, resp. The polyaddn. of TFT with DOX or DEOMS yielded corresponding polymers of about 1+104 as a mol. weight bearing unimodal mol. weight distribution by the initiation of peroxides such as benzoyl peroxide and di-tert-Bu peroxide. showed the slightly higher reactivity compared to that of non-fluorinated analog, bis $(\alpha$ -trifluoromethyl- β , β difluorovinyl) terephthalate (BFP), by the results of ternary polyaddn. of TFT/BFP/DOX system. Polymers bearing TFT moiety showed the higher thermostability and contact angle.

IT 696646-89-6P

> (radical polyaddn. of bis $(\alpha$ -trifluoromethyl- β , β difluorovinyl) 2,3,5,6-tetrafluoroterephthalate and copolymer properties)

RN696646-89-6 HCAPLUS

CN 1,4-Benzenedicarboxylic acid, 2,3,5,6-tetrafluoro-, bis[2,2-difluoro-1-(trifluoromethyl)ethenyl] ester, polymer with 1,4-dioxane (9CI) (CA INDEX NAME)

CM

CRN 625846-37-9 CMF C14 F14 O4

CM 2

CRN 123-91-1 CMF C4 H8 O2

IT 625846-37-9 696646-95-4 696647-01-5

(radical polyaddn. of bis(α -trifluoromethyl- β , β -difluorovinyl) 2,3,5,6-tetrafluoroterephthalate and copolymer properties)

RN 625846-37-9 HCAPLUS

CN 1,4-Benzenedicarboxylic acid, 2,3,5,6-tetrafluoro-, bis[2,2-difluoro-1-(trifluoromethyl)ethenyl] ester (9CI) (CA INDEX NAME)

RN 696646-95-4 HCAPLUS

CN 1,4-Benzenedicarboxylic acid, 2,3,5,6-tetrafluoro-, bis[2,2-difluoro-1-(trifluoromethyl)ethenyl] ester, polymer with diethoxydimethylsilane (9CI) (CA INDEX NAME)

CM 1

CRN 625846-37-9 CMF C14 F14 O4

$$F \longrightarrow F \longrightarrow C \longrightarrow C \longrightarrow F$$

$$F_3C - C - O - C \longrightarrow F$$

$$CF_2 \longrightarrow F$$

$$F \longrightarrow C \longrightarrow C \longrightarrow F$$

CM 2

CRN 78-62-6 CMF C6 H16 O2 Si

RN 696647-01-5 HCAPLUS

CN 1,4-Benzenedicarboxylic acid, 2,3,5,6-tetrafluoro-, bis[2,2-difluoro-1-(trifluoromethyl)ethenyl] ester, polymer with diethoxydimethylsilane and 1,4-dioxane (9CI) (CA INDEX NAME)

CM 1

CRN 625846-37-9 CMF C14 F14 O4

$$F \longrightarrow F \longrightarrow C \longrightarrow C \longrightarrow F$$

$$F_3C-C-O-C \longrightarrow F$$

$$CF_2 \longrightarrow F$$

$$F \longrightarrow C \longrightarrow C \longrightarrow F$$

CM 2

CRN 123-91-1 CMF C4 H8 O2



CM 3

CRN 78-62-6 CMF C6 H16 O2 Si

CC 35-4 (Chemistry of Synthetic High Polymers) IT 696646-89-6P

(radical polyaddn. of bis(α -trifluoromethyl- β , β -

difluorovinyl) 2,3,5,6-tetrafluoroterephthalate and copolymer properties)

TT 78-62-6 123-91-1, 1,4-Dioxane, reactions 625846-37-9 696646-95-4 696647-01-5

(radical polyaddn. of bis (α -trifluoromethyl- β , β -

difluorovinyl) 2,3,5,6-tetrafluoroterephthalate and copolymer

properties)
REFERENCE COUNT:

10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR

THIS RECORD. ALL CITATIONS AVAILABLE IN THE

RE FORMAT

L11 ANSWER 12 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2003:945433 HCAPLUS

DOCUMENT NUMBER:

139:395700

TITLE:

Preparation of bis(1,1,3,3,3-pentafluoropropen-2-

yl) tetrafluorophthalate

INVENTOR(S):

Narita, Tadashi; Kumaki, Terutoshi; Sasaki,

Nobutoshi; Morikawa, Kohei

PATENT ASSIGNEE(S):

Showa Denko K. K., Japan

Jpn. Kokai Tokkyo Koho, 5 pp.

SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE: LANGUAGE: Patent Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003342241	Α	20031203	JP 2002-153540	20020528
PRIORITY APPLN. INFO.:			JP 2002-153540	20020528

OTHER SOURCE(S):

MARPAT 139:395700

ED Entered STN: 04 Dec 2003

AB Title compound (I) is prepared I may be useful as a material or modifier for low-refractive index optical polymers, etc. Thus, 1,1,3,3,3-hexafluoropropan-2-ol was treated with n-BuLi/hexane at 0° for 1 h and esterified with tetrafluoroterephthaloyl chloride to give 76.8% 4-I.

IT 625846-37-9P 625846-38-0P

(preparation of perfluorinated bis(propenyl) phthalate for optical materials)

RN 625846-37-9 HCAPLUS

CN 1,4-Benzenedicarboxylic acid, 2,3,5,6-tetrafluoro-, bis[2,2-difluoro-1-(trifluoromethyl)ethenyl] ester (9CI) (CA INDEX NAME)

RN 625846-38-0 HCAPLUS

CN 1,3-Benzenedicarboxylic acid, 2,4,5,6-tetrafluoro-,

bis[2,2-difluoro-1-(trifluoromethyl)ethenyl] ester (9CI) (CA INDEX NAME)

$$F_3C-C-O-C$$

$$F$$

$$F$$

$$F$$

$$F$$

$$F$$

IC ICM C07C069-83

ICS C08F018-20

CC 25-18 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
 Section cross-reference(s): 73

IT 625846-37-9P 625846-38-0P

(preparation of perfluorinated bis(propenyl) phthalate for optical materials)

L11 ANSWER 13 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2001:489350 HCAPLUS

DOCUMENT NUMBER:

135:76690

TITLE:

Preparation of novel herbicidal aryl vinyl ethers

INVENTOR(S):

Cramp, Michaeel Colin; Gingell, Michaeel; Mack,

Stephen Robert

PATENT ASSIGNEE(S):

Aventis CropScience SA, Fr.

SOURCE:

PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT	KIND		DATE			APPL	ICAT	ION I	DATE						
		•													
, WO 2001		A2 20010705				WO 2	000-	EP13	386	20001220					
WO 2001	047863		A3 20020502												
W:	AE, AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	
	CN, CR	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	
	GM, HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	
	LR, LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	
	PL, PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TR,	TT,	TZ,	
	UA, UG,	UΖ,	VN,	ΥU,	ZA,	ZW,	AM,	ΑZ,	BY,	KG,	KZ,	MD,	RU,	ТJ,	TM
RW:	GH, GM,	KΕ,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	ŪĠ,	ZW,	AT,	BE,	CH,	
	CY, DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	
	TR, BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG
US 2001029239					2001	1011	US 2000-741707					20001220			
PRIORITY APP					GB 1999-30703					A 19991224					

OTHER SOURCE(S):

MARPAT 135:76690

ED Entered STN: 06 Jul 2001

GI

AB The title compds. [I; R1, R2 = H, alkyl, alkenyl, etc.; Y = (un)substituted 2-carboxyphenyl or its ester], useful in controlling weeds, were prepared Thus, treating tert-Bu 2,6-bis(2-methoxy-1-methoxycarbonylvinyloxy)benzoate with F3CCO2H in CH2Cl2 afforded the benzoic acid II. Herbicidal activity of compds. I was tested on weeds such as Amaranthus retroflexus, Setaria viridis, etc. (data given).

IT 347877-96-7P 347877-97-8P 347877-99-0P 347878-08-4P

(preparation of novel herbicidal aryl vinyl ethers)

RN 347877-96-7 HCAPLUS

CN Benzoic acid, 2-[(acetyloxy)methyl]-3-fluoro-6-[[2-methoxy-1-(methoxycarbonyl)ethenyl]oxy]- (9CI) (CA INDEX NAME)

RN 347877-97-8 HCAPLUS

CN Benzoic acid, 2-[(benzoyloxy)methyl]-3-fluoro-6-[[2-methoxy-1-(methoxycarbonyl)ethenyl]oxy]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & & & & & \\ & & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & \\ & & \\ &$$

RN 347877-99-0 HCAPLUS

CN Benzeneacetic acid, [2-carboxy-6-fluoro-3-[[2-methoxy-1-(methoxycarbonyl)ethenyl]oxy]phenyl]methyl ester (9CI) (CA INDEX NAME)

RN 347878-08-4 HCAPLUS

CN Benzoic acid, 3-fluoro-6-[[2-methoxy-1-(methoxycarbonyl)ethenyl]oxy]-2-[(phenylthio)methyl]- (9CI) (CA INDEX NAME)

IT 347878-27-7P 347878-28-8P

(preparation of novel herbicidal aryl vinyl ethers)

RN 347878-27-7 HCAPLUS

CN Benzeneacetic acid, [2-[(1,1-dimethylethoxy)carbonyl]-6-fluoro-3-[[2methoxy-1-(methoxycarbonyl)ethenyl]oxy]phenyl]methyl ester (9CI) (CA
INDEX NAME)

RN 347878-28-8 HCAPLUS

CN Benzoic acid, 2-[(acetyloxy)methyl]-3-fluoro-6-[[2-methoxy-1-(methoxycarbonyl)ethenyl]oxy]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

```
Aco-CH2
            -OBu-t
          C-
             CH-OMe
                C-OMe
                0
IC
         C07C069-92
     TCM
     ICS
          C07D239-60; C07C323-56; C07C317-46; A01N037-10; A01N043-54;
          A01N041-10
CC
     25-17 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
     Section cross-reference(s): 5
                                   347877-95-6P 347877-96-7P
IT
     255906-75-3P
                    255906-82-2P
                    347877-98-9P 347877-99-0P
     347877-97-8P
                    347878-01-7P
     347878-00-6P
                                   347878-02-8P
                                                   347878-03-9P
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                    347878-05-1P
                                   347878-06-2P
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     347878-08-4P
                    347878-09-5P
                                   347878-10-8P
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     347878-12-0P
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     347878-16-4P
                    347878-17-5P
                                   347878-18-6P
                                                   347878-19-7P
     347878-20-0P
                    347878-21-1P
                                   347878-22-2P
        (preparation of novel herbicidal aryl vinyl ethers)
IT
     84434-14-0P
                   136323-05-2P
                                  197718-32-4P
                                                 347878-23-3P
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     347878-28-8P
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                                   347878-30-2P
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                                   347878-34-6P
                                                   347878-35-7P
     347878-32-4P
        (preparation of novel herbicidal aryl vinyl ethers)
     ANSWER 14 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN
L11
                         2001:78212 HCAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                         134:131315
TITLE:
                         Carboxylic acid amides, medicaments containing
                         these compounds and the use and production thereof
                         Hauel, Norbert; Priepke, Henning; Damm, Klaus;
INVENTOR(S):
                         Schnapp, Andreas
                         Boehringer Ingelheim Pharma K.-G., Germany
PATENT ASSIGNEE(S):
SOURCE:
                         PCT Int. Appl., 170 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         German
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
                         KIND
                                            APPLICATION NO.
                                DATE
                                                                    DATE
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                         _ _ _ _
                                            -----
     WO 2001007020
                          A2
                                20010201
                                            WO 2000-EP7057
                                                                    20000722
     WO 2001007020
                          A3
                                20020919
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             LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ,
             UA, UG, UZ, VN, YU, ZA, ZW
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DE 1999-19935219

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

20010201

DE 19935219

CA TR	6362210 2378382 200200226 1261321	B A T A	1 20010201 2 20020923	CA 2000-2378382 TR 2002-226		20000718 20000722 20000722 20000722
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	PT, IE,	SI, LT	, LV, FI, RO,	MK, CY, AL		
HU	200204373	A:	2 20030328	HU 2002-4373		20000722
EE	200200041	Α	20030415	EE 2002-41		20000722
JP	2003518475	Т	20030610	JP 2001-511906		20000722
BR	2000013184	Α	20030701	BR 2000-13184		20000722
US	2002099089	A:	1 20020725	US 2002-37555		20020103
US	6727250	В:	2 20040427			
BG	106343	` A	20020830	BG 2002-106343		20020123
MX	2002PA00822	Α	20021023	MX 2002-PA822		20020123
NO	2002000374	А	20020124	NO 2002-374		20020124
ZA	2002000694	Α	20030801	ZA 2002-694		20020125
IN	2002MN00044	A	20050318	IN 2002-MN44		20020714
PRIORITY	APPLN. INFO		•	DE 1999-19935219	Α	19990727
				US 2000-618702	A3	20000718
				WO 2000-EP7057	W	20000722

OTHER SOURCE(S): MARPAT 134:131315

ED Entered STN: 02 Feb 2001

GI

AB The invention relates to the use of carboxylic acid amides of general formula A(R)(R3)CC(R1)(R4)C(O)N(R2)B (see original for definitions) for inhibiting telomerase, methods for the production thereof, to medicaments containing these compds. and to the use and production thereof. Title compds. were prepared by, e.g., treating Me anthranilate with (E)-3-nitrocinnamic acid and deesterification of the resulting product. Thus (I) was prepared by hydrolysis of its Me ester with NaOH, in 33% yield. In in vitro telomerase inhibition tests using HeLa cell nuclear exts., I had IC50 of 0.035 $\mu \rm M$.

IT 321676-00-0P

(preparation of carboxylic acid amide telomerase inhibitors for use as medicaments)

RN 321676-00-0 HCAPLUS

CN Benzoic acid, 5-fluoro-2-[[(2E)-2-methoxy-3-(2-naphthalenyl)-1-oxo-2-propenyl]amino]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

IC ICM A61K031-00 CC 25-17 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds) Section cross-reference(s): 1, 23, 63 IT 321674-52-6P 321674-54-8P 321674-56-0P 99196-74-4P 99754-06-0P 321674-65-1P 321674-67-3P 321674-58-2P 321674-63-9P 321674-75-3P 321674-77-5P 321674-79-7P 321674-81-1P 321674-83-3P 321674-86-6P 321674-88-8P 321674-91-3P 321674-93-5P 321674-99-1P 321675-05-2P 321675-07-4P 321675-08-5P 321675-09-6P 321675-11-0P 321675-12-1P 321675-14-3P 321675-16-5P 321675-17-6P 321675-19-8P 321675-21-2P 321675-23-4P 321675-25-6P 321675-27-8P 321675-29-0P 321675-31-4P 321675-33-6P 321675-35-8P 321675-36-9P 321675-38-1P 321675-40-5P 321675-42-7P 321675-44-9P 321675-46-1P 321675-47-2P 321675-48-3P 321675-50-7P 321675-52-9P 321675-54-1P 321675-56-3P 321675-58-5P 321675-60-9P 321675-62-1P 321675-64-3P 321675-70-1P 321675-72-3P 321675-76-7P 321675-78-9P 321675-79-0P 321675-80-3P 321675-82-5P 321675-84-7P 321675-88-1P 321675-90-5P 321675-92-7P 321675-94-9P 321675-96-1P 321675-98-3P 321676-00-0P 321676-02-2P 321676-04-4P 321676-06-6P 321676-08-8P 321676-10-2P 321676-12-4P 321676-14-6P 321676-16-8P 321676-18-0P 321676-20-4P 321676-22-6P 321676-23-7P 321676-25-9P 321676-27-1P 321676-29-3P 321676-31-7P 321676-33-9P 321676-35-1P 321676-37-3P 321676-39-5P 321676-41-9P 321676-43-1P 321676-45-3P 321676-47-5P 321676-51-1P 321676-53-3P 321676-55-5P 321676-57-7P 321676-59-9P 321676-61-3P 321676-68-0P 321676-70-4P 321676-72-6P 321676-74-8P 321676-78-2P 321676-79-3P 321676-81-7P 321676-83-9P 321676-84-0P 321676-86-2P 321676-88-4P 321676-90-8P 321676-97-5P 321676-99-7P 321677-01-4P 321677-03-6P 321677-07-0P 321677-09-2P 321677-11-6P 321677-16-1P 321677-12-7P 321677-18-3P 321677-20-7P 321677-22-9P 321677-24-1P 321677-26-3P 321677-28-5P 321677-30-9P 321677-32-1P 321677-34-3P 321677-36-5P 321677-38-7P 321677-40-1P 321677-42-3P 321677-48-9P 321677-53-6P 321677-55-8P 321677-57-0P 321677-60-5P 321677-62-7P 321677-65-0P 321677-67-2P 321677-69-4P 321677-71-8P 321677-72-9P 321677-73-0P 321677-75-2P 321677-77-4P 321677-79-6P 321677-82-1P 321677-84-3P 321677-86-5P 321677-87-6P 321677-89-8P 321677-91-2P 321677-95-6P 321677-97-8P 321677-98-9P 321678-00-6P 321678-02-8P 321678-04-0P 321678-06-2P 321678-08-4P 321678-10-8P 321678-12-0P 321678-17-5P 321678-19-7P 321678-21-1P 321678-23-3P 321678-25-5P 321678-27-7P 321678-29-9P 321678-31-3P 321678-33-5P 321678-35-7P 321678-37-9P 321678-39-1P 321678-41-5P 321678-43-7P 321678-45-9P 321678-47-1P 321678-49-3P 321678-51-7P 321678-53-9P 321678-55-1P 321678-59-5P 321678-61-9P 321678-63-1P 321678-65-3P 321678-67-5P 321678-70-0P 321678-72-2P 321678-74-4P 321678-75-5P 321678-76-6P

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              321678-88-0P
                              321678-90-4P
                                            321678-92-6P
321678-94-8P
              321678-96-0P
                             321678-98-2P
                                            321679-00-9P
321679-02-1P
              321679-04-3P
                             321679-06-5P
                                            321679-08-7P
321679-10-1P
             321679-12-3P
                             321679-14-5P
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(preparation of carboxylic acid amide telomerase inhibitors for use as medicaments)

L11 ANSWER 15 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:840750 HCAPLUS

DOCUMENT NUMBER:

134:159356

TITLE:

Studies with substrate and cofactor analogues provide evidence for a radical mechanism in the

chorismate synthase reaction

AUTHOR (S):

Osborne, Andrew; Thorneley, Roger N. F.; Abell,

Chris; Bornemann, Stephen

CORPORATE SOURCE:

Biological Chemistry Department, John Innes

Centre, Norwich Research Park, Norwich, NR4 7UH,

UK

SOURCE:

Journal of Biological Chemistry (2000), 275(46),

35825-35830

CODEN: JBCHA3; ISSN: 0021-9258

PUBLISHER:

American Society for Biochemistry and Molecular

Biology

DOCUMENT TYPE:

Journal English

LANGUAGE:

Entered STN: 01 Dec 2000

AB Chorismate synthase catalyzes the conversion of 5-enolpyruvylshikimate 3-phosphate (EPSP) to chorismate. The strict requirement for a reduced FMN cofactor and a trans-1,4-elimination are unusual. (6R)-6-Fluoro-EPSP was shown to be converted to chorismate stoichiometrically with enzyme-active sites in the presence of dithionite. This conversion was associated with the oxidation of FMN to give a stable flavin semiquinone. The IC50 of the fluorinated substrate analog was 0.5 and 250 μM with the Escherichia coli enzyme, depending on whether it was preincubated with the enzyme or The lack of dissociation of the flavin semiquinone and chorismate from the enzyme appears to be the basis of the essentially irreversible inhibition by this analog. A dithionite-dependent transient formation of flavin semiquinone during turnover of (6S)-6-fluoro-EPSP has been observed These reactions are best rationalized by radical chemical that is strongly supportive of a radical mechanism occurring during normal turnover. The lack of activity with 5-deaza-FMN provides addnl. evidence for the role of flavin in catalysis by the E. coli enzyme.

IT 137234-10-7

(studies with substrate and cofactor analogs provide evidence for a radical mechanism in chorismate synthase reaction)

RN 137234-10-7 HCAPLUS

CN 1-Cyclohexene-1-carboxylic acid, 5-[(1-carboxyethenyl)oxy]-6-fluoro-4-hydroxy-3-(phosphonooxy)-, (3R,4S,5S,6R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 137330-49-5

(studies with substrate and cofactor analogs provide evidence for a radical mechanism in chorismate synthase reaction)

RN 137330-49-5 HCAPLUS

CN 1-Cyclohexene-1-carboxylic acid, 5-[(1-carboxyethenyl)oxy]-6-fluoro-4-hydroxy-3-(phosphonooxy)-, (3R,4S,5S,6S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

CC 7-4 (Enzymes)

IT 9077-07-0, Chorismate synthase 137234-10-7

(studies with substrate and cofactor analogs provide evidence for a radical mechanism in chorismate synthase reaction)

IT 146-17-8, FMN 89771-75-5 137330-49-5

(studies with substrate and cofactor analogs provide evidence for a radical mechanism in chorismate synthase reaction)

REFERENCE COUNT:

THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 16 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2

2000:165596 HCAPLUS

DOCUMENT NUMBER:

133:4543

TITLE:

Biotransformations to generate fluorinated analogues of shikimate pathway intermediates

AUTHOR(S): CORPORATE SOURCE: Osborne, Andrew P.; Parker, Emily J.; Abell, Chris

University Chemical Laboratory, Cambridge, CB2

1EW, UK

SOURCE: Fluorinated Bioactive Compounds in the

Agricultural & Medical Fields, Proceedings of the Conference, Brussels, Sept. 13-15, 1999 (1999), 13/1-13/10. Chemical & Polymer: Hemel Hempstead,

UK.

CODEN: 68SGA2

DOCUMENT TYPE:

Conference

LANGUAGE: English ED Entered STN: 14 Mar 2000

GI

AB (6R) - (I) and (6S) -6-Fluoroshikimic acids exhibit interesting antibiotic properties. The enzymes of the shikimate pathway have been used in the systemic generation of related fluorinated analogs of all pathway intermediates up to and beyond (6R) - and (6S) -6-fluoroshikimic acids. The enzymic prepns. of (6R) -fluoroEPSP and 2-fluorochorismic are described. Both fluorinated analogs are proposed to be mechanism based irreversible inhibitors for E. coli chorismate synthase and E. coli PABA synthase resp.

IT 137330-49-5P

(biotransformations to generate fluorinated analogs of shikimate pathway intermediates)

RN 137330-49-5 HCAPLUS

CN 1-Cyclohexene-1-carboxylic acid, 5-[(1-carboxyethenyl)oxy]-6-fluoro-4-hydroxy-3-(phosphonooxy)-, (3R,4S,5S,6S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 170170-99-7P, 2-Fluorochorismic acid

(biotransformations to generate fluorinated analogs of shikimate pathway intermediates)

RN 170170-99-7 HCAPLUS

CN 1,5-Cyclohexadiene-1-carboxylic acid, 3-[(1-carboxyethenyl)oxy]-2-fluoro-4-hydroxy-, (3S,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 137234-10-7P

(biotransformations to generate fluorinated analogs of shikimate pathway intermediates)

RN 137234-10-7 HCAPLUS

CN 1-Cyclohexene-1-carboxylic acid, 5-[(1-carboxyethenyl)oxy]-6-fluoro-4-hydroxy-3-(phosphonooxy)-, (3R,4S,5S,6R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

CC 26-9 (Biomolecules and Their Synthetic Analogs)

Section cross-reference(s): 1, 7

IT 137330-49-5P

(biotransformations to generate fluorinated analogs of shikimate pathway intermediates)

IT 170170-99-7P, 2-Fluorochorismic acid

(biotransformations to generate fluorinated analogs of shikimate pathway intermediates)

IT 137234-10-7P

(biotransformations to generate fluorinated analogs of shikimate pathway intermediates)

REFERENCE COUNT:

THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 17 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

14

ACCESSION NUMBER:

2000:68420 HCAPLUS

DOCUMENT NUMBER:

132:107776

TITLE:

Preparation of aryl vinyl ether derivatives as

herbicides

INVENTOR (S):

Ray, Nicholas Charles; White, Catherine

Jacqueline; Gingell, Michael; Pettit, Simon Neil;

Raphy, Gilles

PATENT ASSIGNEE(S):

Rhone-Poulenc Agriculture Ltd., UK

SOURCE:

PCT Int. Appl., 130 pp.

DOCUMENT TO THE

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

1

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA'	TENT I	NO.			KIN	D	DATE			APPLICATION NO.					DATE		
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WO	2000	00391	75		A2		2000	0127	WO 1999-EP5470						19990716		
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		CZ,	DE,	DK,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	
		IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	
		MD,	MG,	MK,	MN,	MW.	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	
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OTHER SOURCE(S): MARPAT 132:107776

ED Entered STN: 28 Jan 2000

GI

AB The title compds. [I; p = 0-1; X1 = 0, NH, S; X2 = 0, S, NH, etc.; X3= N, CH, alkyl substituted by alkoxycarbonyl, OH, etc.; R17 = H, alkyl, alkenyl, etc.; R16 = OH, O(alkyl), O(alkenyl), etc.; R10 = CH2NO2, CH2N3, CH2CN, etc.; R11, R13 = H, alkyl; R11 and R13 may be together a simple bond creating a double bond with the carbon atom to which they are attached; R12, R14 = H, alkyl, a simple bond], useful for controlling weeds, were prepared Thus, treatment of Me 2-(2-tert-butoxycarbonyl-4-chlorophenoxy)-3-hydroxypropenoate with Me2SO4 and K2CO3 in DMF afforded II which showed 100% reduction in the growth of one or more weds species such as Amaranthus retroflexus, Abutilon theophrasti, Galium aparine, etc.

IT 255906-61-7P

(preparation of aryl vinyl ether derivs. as herbicides)

RN 255906-61-7 HCAPLUS

CN Benzoic acid, 2-[[2-methoxy-1-(methoxycarbonyl)ethenyl]oxy]-6-fluoro-(9CI) (CA INDEX NAME)

IT 255906-67-3P 255906-68-4P 255906-69-5P 255906-72-0P 255907-24-5P 255907-25-6P 255907-59-6P 255907-68-7P 255908-02-2P 255908-03-3P 255908-04-4P 255908-05-5P

255908-13-5P 255908-14-6P 255908-15-7P

255908-17-9P

(preparation of aryl vinyl ether derivs. as herbicides)

RN 255906-67-3 HCAPLUS

CN Benzoic acid, 2,3-difluoro-2-[[2-methoxy-1-(methoxycarbonyl)ethenyl]oxy]- (9CI) (CA INDEX NAME)

RN 255906-68-4 HCAPLUS

CN Benzoic acid, 2-chloro-3-fluoro-2-[[2-methoxy-1-(methoxycarbonyl)ethenyl]oxy]- (9CI) (CA INDEX NAME)

RN 255906-69-5 HCAPLUS

CN Benzoic acid, 3-chloro-2-fluoro-2-[[2-methoxy-1-(methoxycarbonyl)ethenyl]oxy]- (9CI) (CA INDEX NAME)

RN 255906-72-0 HCAPLUS

CN Benzoic acid, 5-fluoro-2-[[2-methoxy-1-(methoxycarbonyl)ethenyl]oxy]-(9CI) (CA INDEX NAME)

RN 255907-24-5 HCAPLUS

CN Benzoic acid, 5-fluoro-2-[[2-methoxy-1-(methoxycarbonyl)ethenyl]oxy]-, methyl ester (9CI) (CA INDEX NAME)

RN 255907-25-6 HCAPLUS

CN Benzoic acid, 5-fluoro-2-[[2-methoxy-1-(methoxycarbonyl)ethenyl]oxy]-, ethyl ester (9CI) (CA INDEX NAME)

RN 255907-59-6 HCAPLUS

CN Benzoic acid, 5-fluoro-2-[[2-methoxy-1-(methoxycarbonyl)ethenyl]oxy]-, 2-ethoxyethyl ester (9CI) (CA INDEX NAME)

RN 255907-68-7 HCAPLUS

CN Benzoic acid, 2-fluoro-6-[[2-methoxy-1-(methoxycarbonyl)ethenyl]oxy]-, 2,2,2-trifluoroethyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} F & O & . \\ || & \\ C-O-CH_2-CF_3 \\ CH-OMe \\ || & \\ O-C-C-OMe \\ || & \\ O \end{array}$$

RN 255907-71-2 HCAPLUS

CN Benzoic acid, 2-fluoro-6-[[2-methoxy-1-(methoxycarbonyl)ethenyl]oxy]-, 2,2,2-trichloroethyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} F & O \\ \parallel & \\ C-O-CH_2-CCl_3 \\ \hline CH-OMe \\ \parallel & \\ O-C-C-OMe \\ \parallel & \\ O \end{array}$$

RN 255908-00-0 HCAPLUS

CN Benzoic acid, 2-fluoro-6-[[2-methoxy-1-(methoxycarbonyl)ethenyl]oxy]-, 2-propynyl ester (9CI) (CA INDEX NAME)

RN 255908-01-1 HCAPLUS

CN Benzoic acid, 2-fluoro-6-[[2-methoxy-1-(methoxycarbonyl)ethenyl]oxy]-, phenylmethyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} F & O \\ \hline C-O-CH_2-Ph \\ \hline CH-OMe \\ \hline \\ O-C-C-OMe \\ \hline \\ O \end{array}$$

RN 255908-02-2 HCAPLUS

CN Benzoic acid, 2-fluoro-6-[[2-methoxy-1-(methoxycarbonyl)ethenyl]oxy]-, 2-methoxyethyl ester (9CI) (CA INDEX NAME)

RN 255908-03-3 HCAPLUS

CN Benzoic acid, 2-fluoro-6-[[2-methoxy-1-(methoxycarbonyl)ethenyl]oxy]-, 2-ethoxyethyl ester (9CI) (CA INDEX NAME)

RN 255908-04-4 HCAPLUS

CN Benzoic acid, 2-fluoro-6-[[2-methoxy-1-(methoxycarbonyl)ethenyl]oxy]-, (tetrahydro-2-furanyl)methyl ester (9CI) (CA INDEX NAME)

RN 255908-05-5 HCAPLUS

CN Benzoic acid, 2-fluoro-6-[[2-methoxy-1-(methoxycarbonyl)ethenyl]oxy]-, 3-chloropropyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O & CH-OMe \\ \parallel & \parallel \\ MeO-C-C-O & O \\ \hline & C-O-(CH_2)_3-Cl \\ \hline & F \end{array}$$

RN 255908-13-5 HCAPLUS

CN Benzoic acid, 2,3-difluoro-6-[[2-methoxy-1-(methoxycarbonyl)ethenyl]oxy]-, 2-ethoxyethyl ester (9CI) (CA INDEX NAME)

RN 255908-14-6 HCAPLUS

CN Benzoic acid, 2,3-difluoro-6-[[2-methoxy-1-(methoxycarbonyl)ethenyl]oxy]-, (4-methylphenyl)methyl ester (9CI) (CA_INDEX_NAME)

RN 255908-15-7 HCAPLUS

CN Benzoic acid, 2,3-difluoro-6-[[2-methoxy-1-(methoxycarbonyl)ethenyl]oxy]-, phenylmethyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} F & O \\ \parallel & C-O-CH_2-Ph \\ \hline CH-OMe \\ \parallel & \\ O-C-C-OMe \\ \parallel & \\ O \end{array}$$

RN 255908-17-9 HCAPLUS

ICM C07C258-06

IC

CN Benzoic acid, 5-fluoro-2-[[2-methoxy-1-(methoxycarbonyl)ethenyl]oxy]-, 2-(4-methylphenyl)-2-oxoethyl ester (9CI) (CA INDEX NAME)

ICS C07C323-54; C07C323-58; C07D213-64; C07D312-70; A01N031-06; A01N033-08; A01N043-40
CC 25-10 (Benzene, Its Derivatives, and Condensed Benzenoid Compoun

CC 25-10 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
 Section cross-reference(s): 5

IT **255906-61-7P** 255906-63-9P 255906-77-5P 255906-78-6P 255906-80-0P 255906-92-4P 255908-41-9P

(preparation of aryl vinyl ether derivs. as herbicides)
IT 255906-60-6P 255906-62-8P 255906-64-0P 255906-65-1P

255906-66-2P **255906-67-3P 255906-68-4P**

255906-69-5P 255906-70-8P 255906-71-9P

255906-72-0P 255906-73-1P 255906-74-2P 255906-75-3P 255906-76-4P 255906-79-7P 255906-81-1P 255906-82-2P

255906-76-4P 255906-79-7P 255906-81-1P 255906-82-2P 255906-83-3P 255906-84-4P 255906-85-5P 255906-86-6P

255906-87-7P 255906-88-8P 255906-89-9P 255906-90-2P

255906-91-3P 255906-93-5P 255906-94-6P 255906-95-7P

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                                   255907-64-3P
                                                  255907-67-6P
     255907-68-7P 255907-71-2P 255907-72-3P
     255907-74-5P
                    255907-76-7P
                                   255907-77-8P
                                                  255907-78-9P
     255907-79-0P
                    255907-81-4P
                                   255907-83-6P
                                                  255907-84-7P
                                   255907-88-1P
     255907-85-8P
                    255907-86-9P
                                                  255907-89-2P
     255907-91-6P
                    255907-92-7P
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                                                  255907-94-9P
     255907-96-1P
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     255908-01-1P 255908-02-2P 255908-03-3P
     255908-04-4P 255908-05-5P
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     255908-07-7P
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                                   255908-09-9P
                                                  255908-10-2P
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                    255908-12-4P 255908-13-5P
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     255908-17-9P
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                                                  255908-24-8P
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                    255908-26-0P
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                                                  255908-32-8P
     255908-33-9P
                   255908-34-0P
                                   255908-35-1P
                                                  255908-36-2P
     255908-37-3P
                   255908-38-4P
                                   255908-39-5P
                                                  255908-40-8P
                   255908-59-9P
     255908-58-8P
                                   255911-01-4P
        (preparation of aryl vinyl ether derivs. as herbicides)
L11 ANSWER 18 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN
                         1997:640263 HCAPLUS
                         127:318956
```

ACCESSION NUMBER:

DOCUMENT NUMBER:

TITLE:

Preparation of herbicidal substituted

3-aryl-pyrazoles

Monsanto Co., USA

INVENTOR(S):

Hamper, Bruce C.; McDermott, Lisa L.

PATENT ASSIGNEE(S): SOURCE:

U.S., 26 pp.

DOCUMENT TYPE:

CODEN: USXXAM

LANGUAGE:

Patent

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5672715	Α	19970930	US 1995-476522	19950607
PRIORITY APPLN. INFO.:			US 1995-476522	19950607

OTHER SOURCE(S):

MARPAT 127:318956

Entered STN: 09 Oct 1997 ED

GI

$$\begin{bmatrix} R^3 \\ R^2 \end{bmatrix}$$

$$\begin{bmatrix} R^4 \\ n \end{bmatrix}$$

$$\begin{bmatrix} R^4 \\ n \end{bmatrix}$$

$$\begin{bmatrix} R^4 \\ n \end{bmatrix}$$

$$\begin{bmatrix} R^2 \\ R^2 \end{bmatrix}$$

AB The title compds. [I; R1 = C1-8 alkyl, C3-8 cycloalkyl, cycloalkenyl, etc.; R2 = C1-6 haloalkyl; R3 = C1-6 alkyl, CHO, CH2OH; R4 = R1, thioalkyl, halo, etc.; n = 1-5], useful as herbicides, were prepared by reacting the pyrazole II [Z = Cl, Br, I] with a suitable base followed by reacting the resultant anion with a C1-6 alkyl halide, di(C1-6 alkyl)sulfate or di(C1-6 alkyl)formamide. Thus, treatment of 4-bromo-3-(2,5-difluorophenyl)-1-methyl-5-(trifluoromethyl)-1H-pyrazole with BuLi/hexanes in THF followed by addition of MeI afforded 72% I [R1 = R3 = Me; R2 = CF3; R4 = 2,5-F2] which showed 65% velvetleaf inhibition in preemergence tests.

IT 186340-81-8P

(preparation of herbicidal substituted 3-aryl-pyrazoles)

RN 186340-81-8 HCAPLUS

CN Benzoic acid, 2-chloro-5-[1,4-dimethyl-5-(trifluoromethyl)-1H-pyrazol-3-yl]-4-fluoro-, 4-ethoxy-2-methoxy-4-oxo-2-butenyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O & OMe & O \\ | & | & | \\ C-O-CH_2-C=CH-C-OEt \\ \hline \\ Me & \\ \hline \\ F_3C & Me \\ \end{array}$$

IC ICM C07D231-12

INCL 548374100

CC 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 5

IT 186340-11-4P 186340-30-7P 186340-32-9P 186340-35-2P 186340-37-4P 186340-38-5P 186340-39-6P 186340-40-9P 186340-41-0P 186340-42-1P 186340-43-2P 186340-44-3P 186340-46-5P 186340-48-7P 186340-50-1P 186340-52-3P 186340-54-5P 186340-56-7P 186340-58-9P 186340-60-3P 186340-62-5P 186340-64-7P 186340-66-9P 186340-68-1P 186340-70-5P 186340-71-6P 186340-73-8P 186340-74-9P 186340-75-0P 186340-76-1P 186340-77-2P 186340-78-3P 186340-79-4P 186340-80-7P 186340-81-8P 186340-82-9P 186340-83-0P 186340-84-1P 186340-85-2P 186340-86-3P 186340-87-4P 186340-89-6P 186340-90-9P 186340-92-1P 186340-94-3P 186340-96-5P 186340-97-6P 186340-98-7P 195821-34-2P

(preparation of herbicidal substituted 3-aryl-pyrazoles)

L11 ANSWER 19 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

1997:616997 HCAPLUS

DOCUMENT NUMBER:

127:244288

TITLE:

Preparation of herbicidal substituted

3-arylpyrazoles

INVENTOR(S):

Hamper, Bruce C.; McDermott, Lisa L.

PATENT ASSIGNEE(S):

Monsanto Co., USA

SOURCE:

U.S., 26 pp.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5668088	Α	19970916	US 1995-476518	19950607
PRIORITY APPLN. INFO.:			US 1995-476518	19950607

OTHER SOURCE(S):

MARPAT 127:244288

Entered STN: 27 Sep 1997

GI

- Substituted 3-arylpyrazoles I (R1 = alkyl, cycloalkyl, cycloalkenyl, AB etc.; R2 = haloalkyl; R3 = R2, alkyl, CHO, CH2OH, R4 = R1, thioalkyl, halo, amino, nitro, etc.; n = 1-5) are prepared as herbicides.
- IT 186340-81-8P

(preparation as herbicide)

- RN 186340-81-8 HCAPLUS
- CN Benzoic acid, 2-chloro-5-[1,4-dimethyl-5-(trifluoromethyl)-1H-pyrazol-3-yl]-4-fluoro-, 4-ethoxy-2-methoxy-4-oxo-2-butenyl ester (9CI) (CA INDEX NAME)

IC ICM A01N043-56 ICS C07D231-12

INCL 504280000

5-3 (Agrochemical Bioregulators)

```
Section cross-reference(s): 28
IT
    186340-11-4P
                  186340-14-7P
                                   186340-17-0P
                                                  186340-30-7P
     186340-32-9P
                    186340-33-0P
                                   186340-34-1P
                                                 186340-35-2P
                    186340-37-4P
     186340-36-3P
                                   186340-38-5P
                                                  186340-39-6P
     186340-40-9P
                    186340-41-0P
                                   186340-42-1P
                                                  186340-43-2P
     186340-44-3P
                    186340-46-5P
                                   186340-48-7P
                                                  186340-50-1P
                    186340-56-7P
                                   186340-58-9P
                                                  186340-60-3P
     186340-54-5P
     186340-62-5P
                    186340-64-7P
                                   186340-66-9P
                                                  186340-68-1P
     186340-70-5P
                    186340-71-6P
                                   186340-73-8P
                                                  186340-74-9P
     186340-75-0P
                    186340-76-1P
                                   186340-77-2P
                                                  186340-78-3P
     186340-79-4P
                    186340-80-7P 186340-81-8P
                                               186340-82-9P
     186340-83-0P
                    186340-84-1P
                                   186340-85-2P
                                                  186340-86-3P
     186340-87-4P
                   186340-89-6P
                                   186340-90-9P
                                                  186340-92-1P
    186340-94-3P
                   186340-96-5P
                                   186340-97-6P
                                                 186340-98-7P
    195821-33-1P
                   195821-34-2P
        (preparation as herbicide)
```

L11 ANSWER 20 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:119251 HCAPLUS

DOCUMENT NUMBER: 126:128271

TITLE: Preparation of herbicidal substituted

3-arylpyrazoles

INVENTOR(S): Hamper, Bruce C.; Mcdermott, Lisa L.

PATENT ASSIGNEE(S): Monsanto Co., USA

SOURCE: PCT Int. Appl., 107 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA	PATENT NO. KIND DATE APPLI						LICAT	'ION		DATE							
WO							1996	 1219		wo	1996-	US86	 48		19960603		
•											, CH,						
		ES,	FI,	GB,	GE,	HU,	IL,	IS,	JP,	KE	, KG,	KP,	KR,	ΚZ,	LK,	LR,	
		LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW	, MX,	NO,	NZ,	PL,	PT,	RO,	
		RU,	SD,	SE,	SG,	SI											
	RW:	KΕ,	LS,	MW,	SD,	SZ,	UG,	ΑT,	BE,	CH	, DE,	DK,	ES,	FI,	FR,	GB,	
		GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	BF	, BJ,	CF,	CG,	CI,	CM,	GA,	
			ML														
																9950607	
ZA	9604	324			Α		1996	1206	ZA 1996-4324						1	9960528	
AU	9659	775			Α		1996	1230		ΑU	1996-	5977	5		1	9960603	
AU	7133	98			B2		1999	1202									
EP	8461	05			A1		1998	0610		ΕP	1996-	9170	97		1	9960603	
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	, IT,	LI,	LU,	NL,	SE,	MC,	
		PT,	ΙE,	SI,	LT,	LV,	FI										
										JP	1996-	5011	76		1	9960603	
	9900									HU	1999-	968			1:	9960603	
HU	9900	968			A3		2001	0828									
PRIORITY	APP:	LN.	INFO	.:					,	US	1995-	4767	94	7	A 1:	9950607	
										WO	1996-	US86	48	V	V 1:	9960603	

OTHER SOURCE(S): CASREACT 126:128271; MARPAT 126:128271

ED Entered STN: 21 Feb 1997

GI

$$\mathbb{R}^3$$
 \mathbb{R}^2
 \mathbb{R}^3
 \mathbb{R}^2
 \mathbb{R}^3
 \mathbb{R}^2
 \mathbb{R}^3

The invention relates to substituted arylpyrazoles I [R1 = (un)substituted C1-8 alkyl: C3-8 cycloalkyl, cycloalkenyl, cycloalkylalkyl, cycloalkenylalkyl, C2-8 alkenyl or alkynyl; benzyl, etc.; R2 = C1-6 haloalkyl; R3 = C1-6 alkyl, C1-6 haloalkyl, CHO or CH2OH; R4 = R1, thioalkyl, polyalkoxyalkyl, carbamyl, halo, amino, nitro, cyano, hydroxy, C3-10 heterocyclyl, C6-12 aryl, aralkyl or alkaryl, etc.; n = 1-5] herbicides and their preparation

IT 186340-81-8P

(preparation as herbicide)

RN 186340-81-8 HCAPLUS

ICM C07D231-12

IC

CN Benzoic acid, 2-chloro-5-[1,4-dimethyl-5-(trifluoromethyl)-1H-pyrazol-3-yl]-4-fluoro-, 4-ethoxy-2-methoxy-4-oxo-2-butenyl ester (9CI) (CA INDEX NAME)

ICS A01N043-56; C07D405-12; C07D413-12 CC 5-3 (Agrochemical Bioregulators) Section cross-reference(s): 28 IT 186340-11-4P 186340-14-7P 186340-17

186340-11-4P 186340-14-7P 186340-30-7P 186340-17-0P 186340-33-0P 186340-35-2P 186340-32-9P 186340-34-1P 186340-36-3P 186340-37-4P 186340-38-5P 186340-39-6P 186340-40-9P 186340-43-2P 186340-41-0P 186340-42-1P 186340-44-3P 186340-46-5P 186340-48-7P 186340-50-1P 186340-52-3P 186340-54-5P 186340-56-7P 186340-58-9P 186340-60-3P 186340-62-5P 186340-64-7P 186340-66-9P 186340-68-1P 186340-70-5P 186340-71-6P 186340-72-7P 186340-73-8P 186340-74-9P 186340-75-0P 186340-76-1P 186340-77-2P 186340-78-3P 186340-79-4P 186340-80-7P 186340-81-8P 186340-82-9P 186340-83-0P 186340-84-1P 186340-85-2P 186340-86-3P 186340-87-4P 186340-89-6P 186340-90-9P 186340-92-1P 186340-94-3P 186340-96-5P 186340-98-7P 186340-97-6P

(preparation as herbicide)

L11 ANSWER 21 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1996:167589 HCAPLUS

DOCUMENT NUMBER:

124:202288

TITLE:

Preparation of 3-(dioxopyrimidino) benzoates and

analogs as herbicides

INVENTOR(S):

Kunz, Walter; Siegrist, Urs; Baumeister, Peter

PATENT ASSIGNEE(S): SOURCE:

Ciba-Geigy A.-G., Switz. PCT Int. Appl., 126 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.					KIND DATE			APPLICATION NO.							DATE		
WO	WO 9532952			A1	A1 19951207				WO 1	 995-1		19950517					
	W:	AM,	AU,	BB,	BG,	BR,	BY,	CA,	CN,	CZ,	EE,	FI,	GE,	HU,	IS,	JP,	
		KG,	ΚP,	KR,	ΚZ,	LK,	LR,	LT,	LV,	MD,	MG,	MN,	MX,	NO,	NZ,	PL,	
		RO,	RU,	SG,	SI,	SK,	ТJ,	TM,	TT,	UA,	US,	UZ,	VN				
	RW:	KE,	MW,	SD,	SZ,	UG,	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IE,	
		IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	ML,	
		MR,	ΝE,	SN,	TD,	TG			•							•	
AU	9527	348			Α		1995	1221	1	AU 1	995-	2734	8		1	9950517	
ZA	9504	324			Α		1996	0125	:	ZA 1	995-4	4324			1	9950526	
PRIORIT	Y APP	LN.	INFO	.:					(CH 1	994-	1647		i	A 1	9940527	
									1	WO 1	995-1	EP18'	75	1	w 1	9950517	

OTHER SOURCE(S): MARPAT 124:202288

ED Entered STN: 22 Mar 1996

GI

AΒ Title compds. [I; R = (YQ)m(CO)nXR2; Q = (cyclo)alkylene; R1 =alk(en)yl, alkynyl; R2 = (cyclo)alkenyl, haloalkenyl, alkynyl; R3 = H, halo, alkyl, alkoxy, etc.; R4 = H, F, Cl; R5 = (halo)alkyl, alkenyl, alkynyl; X = O, S, alkylimino, etc.; Y = O, S, alkylimino, CO2, etc.; m,n = 0 or 1] were prepared as herbicides (no data). Thus, CF3COCH2CO2Et was amidated by 2,5-Cl(H2N)C6H3CO2CMe2CO2CH2CH:CH2 and the enamine of the product cyclized with COCl2 to give, after N-methylation, I (R = CO2CMe2CO2CH2CH:CH2, R1 = Me, R3 = Cl, R4 = H, R5 = CF3).

IT 174489-57-7P

(preparation of 3-(dioxopyrimidino)benzoates and analogs as herbicides)

RN174489-57-7 HCAPLUS

CN Benzoic acid, 2-chloro-4-fluoro-5-[(4,4,4-trifluoro-3-hydroxy-1-oxo-2butenyl)amino]-, 1,1-dimethyl-2-oxo-2-(2-propenyloxy)ethyl ester (9CI) (CA INDEX NAME)

0

Me O

OH

```
- C=== CH-- C-- NH
                               - C- C- O- CH<sub>2</sub> - CH== CH<sub>2</sub>
                               Me
                           Cl
IC
     ICM C07D239-54
     ICS C07C237-16; C07C235-28; C07C237-42; A01N043-54
CC
     28-15 (Heterocyclic Compounds (More Than One Hetero Atom))
     Section cross-reference(s): 5
IT
                                  84478-65-9P
     56768-05-9P
                    84478-64-8P
                                                 84478-70-6P
                                                               84478-85-3P
     103361-42-8P
                     111332-30-0P
                                    112731-07-4P
                                                    114168-88-6P
     114168-89-7P
                     129911-05-3P
                                    134553-65-4P
                                                    134553-67-6P
     153774-20-0P
                     174489-43-1P
                                    174489-44-2P
                                                    174489-45-3P
     174489-46-4P
                     174489-47-5P
                                    174489-48-6P
                                                    174489-49-7P
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                                                 174489-58-8P
     174489-59-9P
                     174489-75-9P
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                                    174489-81-7P
                                                    174489-82-8P
     174489-83-9P
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     174489-91-9P
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                                                    174490-00-7P
                                    174490-03-0P
     174490-01-8P
                     174490-02-9P
                                                    174490-04-1P
     174490-05-2P
                     174490-06-3P
         (preparation of 3-(dioxopyrimidino)benzoates and analogs as herbicides)
L11 ANSWER 22 OF 32
                      HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
                          1996:64293 HCAPLUS
DOCUMENT NUMBER:
                          124:118426
TITLE:
                          Molecular design of ferroelectric liquid
                          crystalline polymers
AUTHOR (S):
                          Hsu, Chain-Shu; Hsiue, Ging-Ho
CORPORATE SOURCE:
                          Department of Applied Chemistry, National Chiao
                          Tung University, Hsinchu, 30050, Taiwan
SOURCE:
                          Pure and Applied Chemistry (1995), 67(12), 2005-13
                          CODEN: PACHAS; ISSN: 0033-4545
PUBLISHER:
                          Blackwell
DOCUMENT TYPE:
                          Journal
LANGUAGE:
                          English
ED
     Entered STN: 31 Jan 1996
AB
     The characterization of several series of ferroelec. side-chain
     polymers is presented. Differential scanning calorimetry, optical
     polarizing microscopy and x-ray diffraction measurement were used determine
     their thermal transitions and analyze their anisotropic textures. The
     influence of polymer backbones, flexible spacers, mesogenic cores as
     well as chiral end groups on the mesomorphic properties of the
     polymers was discussed.
IT
     173355-62-9D, hydrosilation products with Me H siloxanes
     173355-63-0D, hydrosilation products with Me H siloxanes
     173355-64-1D, hydrosilation products with Me H siloxanes
        (mol. design in relation to to thermal and phase transitions in
        ferroelec. chiral smectic liquid-crystalline polysiloxanes and
        polymethacrylates)
RN
     173355-62-9 HCAPLUS
     [1,1'-Biphenyl]-4-carboxylic acid, 4'-[2-(ethenyloxy)ethoxy]-,
CN
```

2-fluoro-4-[(2-methylbutoxy)carbonyl]phenyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$H_2C$$

RN 173355-63-0 HCAPLUS

CN [1,1'-Biphenyl]-4-carboxylic acid, 4'-[2-[2-(ethenyloxy)ethoxy], 2-fluoro-4-[(2-methylbutoxy)carbonyl]phenyl ester, (S)- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

RN 173355-64-1 HCAPLUS

CN [1,1'-Biphenyl]-4-carboxylic acid, 4'-[2-[2-[2-(ethenyloxy)ethoxy]ethoxy]-, 2-fluoro-4-[(2-methylbutoxy)carbonyl]phenyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

$$H_2C$$

PAGE 1-B

CC 36-2 (Physical Properties of Synthetic High Polymers)
 Section cross-reference(s): 75

26403-67-8D, hydrosilation products with chiral alkenyl derivs. 49718-23-2D, hydrosilation products with chiral alkenyl derivs. 144512-89-0D, hydrosilation products with Me H siloxanes 144512-90-3D, hydrosilation products with Me H siloxanes 144512-91-4D, hydrosilation products with Me H siloxanes 144512-92-5D, hydrosilation products with Me H siloxanes

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144512-93-6D, hydrosilation products with Me H siloxanes
144513-02-0
              144513-03-1
                            148186-51-0 148186-53-2
148357-84-0D, hydrosilation products with Me H siloxanes
148357-85-1D, hydrosilation products with Me H siloxanes
148357-86-2D, hydrosilation products with Me H siloxanes
152066-27-8D, hydrosilation products with Me H siloxanes
152066-28-9D, hydrosilation products with Me H siloxanes
152066-29-0D, hydrosilation products with Me H siloxanes
157789-34-9D, hydrosilation products with Me H siloxanes
157903-53-2D, hydrosilation products with Me H siloxanes
157903-54-3D, hydrosilation products with Me H siloxanes
163559-24-8D, hydrosilation products with Me H siloxanes
163559-25-9D, hydrosilation products with Me H siloxanes
163559-26-0D, hydrosilation products with Me H siloxanes
163559-28-2D, hydrosilation products with Me H siloxanes
163559-29-3D, hydrosilation products with Me H siloxanes
.163559-30-6D, hydrosilation products with Me H siloxanes
173355-59-4D, hydrosilation products with Me H siloxanes
173355-60-7D, hydrosilation products with Me H siloxanes
173355-61-8D, hydrosilation products with Me H siloxanes
173355-62-9D, hydrosilation products with Me H siloxanes
173355-63-0D, hydrosilation products with Me H siloxanes
173355-64-1D, hydrosilation products with Me H siloxanes
    (mol. design in relation to to thermal and phase transitions in
   ferroelec. chiral smectic liquid-crystalline polysiloxanes and
   polymethacrylates)
```

L11 ANSWER 23 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

1996:39158 HCAPLUS

DOCUMENT NUMBER:

124:110672

TITLE:

Binding of the Oxidized, Reduced, and Radical Flavin Species to Chorismate Synthase. An

Investigation by Spectrophotometry, Fluorimetry, and Electron Paramagnetic Resonance and Electron

Nuclear Double Resonance Spectroscopy

AUTHOR (S):

Macheroux, Peter; Petersen, Jan; Bornemann,

CORPORATE SOURCE:

Stephen; Lowe, David J.; Thorneley, Roger N. F. Nitrogen Fixation Laboratory, John Innes Centre,

Norwich, NR4 7UH, UK

SOURCE:

Biochemistry (1996), 35(5), 1643-52

CODEN: BICHAW; ISSN: 0006-2960

PUBLISHER: American Chemical Society Journal

DOCUMENT TYPE:

English

LANGUAGE: ED Entered STN: 20 Jan 1996

AB Chorismate synthase (EC 4.6.1.4) binds oxidized riboflavin-5'phosphate mononucleotide (FMN) with a KD of 30 μ M at 25°, but in the presence of 5-enolpyruvylshikimate-3-phosphate (EPSP), the KD decreases to .apprx.20 nM. Similar effects occur with the substrate analog (6R)-6-fluoro-EPSP (KD = 36 nM) and chorismate (KD = 540 nM). Fluorescence of oxidized FMN is slightly quenched in the presence of chorismate synthase. Addition of EPSP or the (6R)-6-fluoro analog causes a shift of the fluorescence from 520 to 495 nm. Chorismate causes no shift in, but a quenching of, the fluorescence emission maximum In the presence of EPSP, (6R)-6-fluoro-EPSP, or chorismate, the neutral flavin semiquinone is generated. width of the flavin radical is indicative of a neutral flavin semiquinone. Frozen solution electron nuclear double resonance (ENDOR) of the radical with (6R)-6-fluoro-EPSP shows a number of proton ENDOR line pairs. The largest splitting is assigned to a hyperfine coupling

to the Me group β -protons at position 8 of the isoalloxazine ring. The hyperfine-coupling (hFc) components have values of AL = 8.07 MHz and A.dblvert. = 9.60 MHz, giving Aiso of 8.58 MHz, consistent with a neutral semiquinone form. The isotropic hFc coupling of the 8-Me protons with (6R)-6-fluoro-EPSP decreases by about 0.5 MHz when chorismate is bound, indicating that the spin d. distribution within the isoalloxazine ring system depends critically on the nature of the ligand. The redox potential of FMN in the presence of chorismate synthase was 95 mV more pos. than that of free FMN (at pH 7.0), equivalent to a 1660-fold tighter binding of reduced FMN. The pH dependence of the redox potential of chorismate synthase-bound FMN exhibits a slope of -30 mV per pH unit between pH 6 and 9, indicating that the two-electron reduction of the flavin is associated with the uptake of one proton; this, and the UV-visible spectrum, is consistent with the reduced flavin being bound to chorismate synthase in its monoanionic form.

IT 137234-10-7

(binding of oxidized, reduced, and radical flavin species to chorismate synthase. an investigation by spectrophotometry, fluorimetry, and ESR and electron nuclear double resonance spectroscopy)

RN 137234-10-7 HCAPLUS

CN 1-Cyclohexene-1-carboxylic acid, 5-[(1-carboxyethenyl)oxy]-6-fluoro-4-hydroxy-3-(phosphonooxy)-, (3R,4S,5S,6R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

CC 7-3 (Enzymes)

CORPORATE SOURCE:

IT 146-17-8, FMN 617-12-9 9077-07-0, Chorismate Synthase 137234-10-7

(binding of oxidized, reduced, and radical flavin species to chorismate synthase. an investigation by spectrophotometry, fluorimetry, and ESR and electron nuclear double resonance spectroscopy)

L11 ANSWER 24 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:857992 HCAPLUS

DOCUMENT NUMBER: 123:329336

TITLE: Escherichia coli chorismate synthase catalyzes the

conversion of (6S)-6-fluoro-5-enolpyruvylshikimate-3-phosphate to 6-fluorochorismate. Implications for the enzyme mechanism and the antimicrobial

action of (6S)-6-fluoroshikimate

AUTHOR(S): Bornemann, Stephen; Ramjee, Manoj K.;

Balasubramanian, Shankar; Abell, Chris; Coggins,

John R.; Lowe, David J.; Thorneley, Roger N. F. Nitrogen Fixation Lab., Univ. Sussex, Brighton,

Sussex, BN1 9RQ, UK

SOURCE:

Journal of Biological Chemistry (1995), 270(39),

22811-15

CODEN: JBCHA3; ISSN: 0021-9258

PUBLISHER:

American Society for Biochemistry and Molecular

Bio logy

DOCUMENT TYPE: LANGUAGE: Journal English

ED Entered STN: 14 Oct 1995

Chorismate synthase catalyzes the conversion of 5-enolpyruvylshikimate-AB 3-phosphate to chorismate. It is the seventh enzyme of the shikimate pathway, which is responsible for the biosynthesis of aromatic metabolites from glucose. The chorismate synthase reaction involves a 1,4-elimination with unusual anti-stereochem. and requires a reduced flavin cofactor. The substrate analog (6S)-6-fluoro-5enolpyruvylshikimate-3-phosphate is a competitive inhibitor of Neurospora crassa chorismate synthase (Balasubramanian, et al 1991). We have shown that this analog is converted to 6-fluorochorismate by Escherichia coli chorismate synthase at a rate 2 orders of magnitude slower than the normal substrate. The decreased rate of reaction is consistent with the destabilization of an allylic cationic intermediate. The formation of chorismate and 6-fluorochorismate involves a common protein-bound flavin intermediate although the fluoro substituent does influence the spectral characteristics of this intermediate. The fluoro substituent also decreased the rate of decay of the flavin intermediate by 280 times. These results are consistent with the antimicrobial activity of (6S)-6-fluoroshikimate not being mediated by the inhibition of chorismate synthase but by the inhibition of 4-aminobenzoic acid synthesis as previously proposed (Davies, et al 1994).

IT 170170-99-7

(chorismate synthase catalyzes the conversion of fluoroenolpyruvylshikimate phosphate to fluorochorismate: implications for the enzyme mechanism and antimicrobial action of fluoroshikimate)

RN 170170-99-7 HCAPLUS

CN 1,5-Cyclohexadiene-1-carboxylic acid, 3-[(1-carboxyethenyl)oxy]-2-fluoro-4-hydroxy-, (3S,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 137330-49-5

(chorismate synthase catalyzes the conversion of fluoroenolpyruvylshikimate phosphate to fluorochorismate: implications for the enzyme mechanism and antimicrobial action of fluoroshikimate)

RN 137330-49-5 HCAPLUS

CN 1-Cyclohexene-1-carboxylic acid, 5-[(1-carboxyethenyl)oxy]-6-fluoro-4-hydroxy-3-(phosphonooxy)-, (3R,4S,5S,6S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

CC 1-5 (Pharmacology)

Section cross-reference(s): 7

170170-99-7 IT

> (chorismate synthase catalyzes the conversion of fluoroenolpyruvylshikimate phosphate to fluorochorismate: implications for the enzyme mechanism and antimicrobial action of fluoroshikimate)

IT 137330-49-5

> (chorismate synthase catalyzes the conversion of fluoroenolpyruvylshikimate phosphate to fluorochorismate: implications for the enzyme mechanism and antimicrobial action of fluoroshikimate)

L11 ANSWER 25 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

1995:781104 HCAPLUS

DOCUMENT NUMBER:

123:229078

TITLE:

Molecular engineering of liquid-crystalline polymers by 'living' polymerization. Part 31. Synthesis and 'living' cationic polymerization of

(2R,3S)-2-fluoro-3-methylpentyl

3-fluoro-4'-(ω-vinyloxyalkoxy)biphenyl-4-

carboxylate with undecanyl and octyl alkyl groups

AUTHOR (S):

CORPORATE SOURCE:

Percec, Virgil; Oda, Hiroji Dep. Macromol. Sci., Case West. Reserve Univ., Cleveland, OH, 44106-7202, USA

SOURCE:

Journal of Materials Chemistry (1995), 5(8),

1125-36

CODEN: JMACEP; ISSN: 0959-9428

PUBLISHER:

Royal Society of Chemistry

DOCUMENT TYPE:

Journal

LANGUAGE:

English

Entered STN: 08 Sep 1995

AΒ The synthesis and living cationic polymerization of (2R,3S)-2-fluoro-3methylpentyl 3-fluoro-4'-(11-vinyloxyundecanyloxy)biphenyl-4carboxylate (I) and (2R,3S)-2-fluoro-3-methylpentyl 3-fluoro-4'-(8-vinyloxyoctyloxy)biphenyl-4-carboxylate (II) are described. PolyIs and polyIIs with degrees of polymerization (DP) from 4.5 to 16.7 and polydispersities 1.22 were synthesized and characterized by differential scanning calorimetry (DSC) and thermal optical polarized microscopy. Over the entire range of mol. wts. formed, polyIs and polyIIs exhibit enantiotropic SA and SC* phases. In addition, polyIs with DP 8.7 and polyIIs with DP 10.0 exhibit an unidentified SX mesophase. All polyIs are non-crystallizable, while polyIIs with DP 7.2 exhibit a crystalline phase. I-II copolymers (X:Y) (where X:Y represents the molar ratio of monomer I to monomer II) with DP of ca. 12 and polydispersities lower than 1.22 are also synthesized and characterized. Both the SA and Sc* mesophases of these copolymers exhibit continuous dependences over the entire range of copolymer

composition

TT 168100-33-2P 168100-34-3P 168100-35-4P (preparation and characterization of)

RN 168100-33-2 HCAPLUS

CN [1,1'-Biphenyl]-4-carboxylic acid, 4'-[[8-(ethenyloxy)octyl]oxy]-2-fluoro-, 2-fluoro-3-methylpentyl ester, [R-(R*,S*)]-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 168100-31-0 CMF C29 H38 F2 O4

Absolute stereochemistry.

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & &$$

RN 168100-34-3 HCAPLUS

CN [1,1'-Biphenyl]-4-carboxylic acid, 4'-[[11-(ethenyloxy)undecyl]oxy]-2-fluoro-, 2-fluoro-3-methylpentyl ester, [R-(R*,S*)]-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 168100-32-1 CMF C32 H44 F2 O4

Absolute stereochemistry.

RN 168100-35-4 HCAPLUS

CN [1,1'-Biphenyl]-4-carboxylic acid, 4'-[[8-(ethenyloxy)octyl]oxy]-2-fluoro-, 2-fluoro-3-methylpentyl ester, [R-(R*,S*)]-, polymer with [R-(R*,S*)]-2-fluoro-3-methylpentyl 4'-[[11-(ethenyloxy)undecyl]oxy]-2-fluoro[1,1'-biphenyl]-4-carboxylate (9CI) (CA INDEX NAME)

CM 1

CRN 168100-32-1

CMF C32 H44 F2 O4

Absolute stereochemistry.

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & &$$

CM 2

CRN 168100-31-0 CMF C29 H38 F2 O4

Absolute stereochemistry.

IT 168100-31-0P 168100-32-1P

(preparation and polymerization of)

RN 168100-31-0 HCAPLUS

CN [1,1'-Biphenyl]-4-carboxylic acid, 4'-[[8-(ethenyloxy)octyl]oxy]-3-fluoro-, 2-fluoro-3-methylpentyl ester, [2R-(R*,S*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\$$

RN 168100-32-1 HCAPLUS

CN [1,1'-Biphenyl]-4-carboxylic acid, 4'-[[11-(ethenyloxy)undecyl]oxy]-3-fluoro-, 2-fluoro-3-methylpentyl ester, [2R-(R*,S*)]- (9CI) (CA INDEX

NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & &$$

CC 35-4 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 75

IT 168100-33-2P 168100-34-3P 168100-35-4P

(preparation and characterization of)

IT 168100-31-0P 168100-32-1P

(preparation and polymerization of)

L11 ANSWER 26 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: DOCUMENT NUMBER:

1995:468715 HCAPLUS 122:205175

TITLE:

Preparation of β -heteroaryl- β -

oxopropionitriles as insecticides and

ectoparasiticides.

INVENTOR(S):

Plant, Andrew; Harder, Achim; Erdelen, Christoph

PATENT ASSIGNEE(S):

Bayer A.-G., Germany Ger. Offen., 42 pp.

SOURCE:

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
•	DE 4330105	A1	19950309	DE 1993-4330105	19930906
PRIORITY APPLN. INFO.:				DE 1993-4330105	19930906

OTHER SOURCE(S):

MARPAT 122:205175

ED Entered STN: 06 Apr 1995

GI

AB The title compds. I [R1,R2,R3=H, halo, CN, NO2, alkyl, heteroalkyl, heteroaryl, etc.; Z= (un)substituted (cyclo)alkyl, aryl, heteroalkyl, heteroaryl, etc.; X,Y= O or S] are prepared as insecticides and

ectoparasiticides. I (R1=3-H, R2=R3=H, X=S,Y=O, Z=NHC6H4SCF3-4), administered orally, at 10 mg/kg, controlled Haemonchus contortus, in sheep.

IT 162016-96-8P 162017-08-5P

(preparation as insecticide and ectoparasiticide)

RN 162016-96-8 HCAPLUS

CN Benzoic acid, 6-chloro-3-[[2-cyano-3-hydroxy-1-oxo-3-(2-thienyl)-2-propenyl]amino]-2-fluoro-, methyl ester (9CI) (CA INDEX NAME)

RN 162017-08-5 HCAPLUS

CN Benzoic acid, 6-chloro-3-[[2-cyano-3-hydroxy-1-oxo-3-(2-thienyl)-2-propenyl]amino]-2-fluoro-, 1-methylethyl ester (9CI) (CA INDEX NAME)

IC ICM A01N043-06

ICS A01N043-40; A01N043-74; C07D307-54; C07D333-24; C07D401-12

ICA C02F001-50; A01J003-00; A61K031-34; A61K031-38

ICI C07D401-12, C07D333-24, C07D213-57

CC 1-5 (Pharmacology)

IT

Section cross-reference(s): 5, 27

162016-43-5P 162016-40-2P 162016-41-3P 162016-42-4P 162016-44-6P 162016-45-7P 162016-46-8P 162016-47-9P 162016-48-0P 162016-49-1P 162016-50-4P 162016-51-5P 162016-52-6P 162016-53-7P 162016-54-8P 162016-55-9P 162016-56-0P 162016-57-1P 162016-58-2P 162016-59-3P 162016-60-6P 162016-61-7P 162016-62-8P 162016-63-9P 162016-64-0P 162016-65-1P 162016-66-2P 162016-67-3P 162016-70-8P 162016-68-4P 162016-69-5P 162016-71-9P 162016-72-0P 162016-73-1P 162016-74-2P 162016-75-3P 162016-76-4P 162016-77-5P 162016-78-6P 162016-79-7P 162016-80-0P 162016-81-1P 162016-82-2P 162016-83-3P 162016-84-4P 162016-85-5P 162016-86-6P 162016-87-7P 162016-88-8P 162016-89-9P 162016-91-3P 162016-90-2P 162016-92-4P 162016-93-5P 162016-94-6P 162016-95-7P 162016-96-8P 162016-97-9P 162016-98-0P 162016-99-1P 162017-00-7P 162017-01-8P 162017-02-9P 162017-03-0P 162017-04-1P 162017-05-2P 162017-06-3P 162017-07-4P

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162017-08-5P
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162017-36-9P
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                               162017-78-9P
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162017-84-7P
               162017-85-8P
                               162017-86-9P
                                              162017-87-0P
   (preparation as insecticide and ectoparasiticide)
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L11 ANSWER 27 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

1992:490275 HCAPLUS

DOCUMENT NUMBER:

117:90275

TITLE:

Preparation of pyrazolylmethoxyacrylates as

agrochemical fungicides

INVENTOR (S):

Oda, Masatsugu; Shike, Toyohiko; Miura, Yumiko;

Kikutake, Kazuhiko; Sekine, Mana

PATENT ASSIGNEE(S):

Mitsubishi Kasei Corp., Japan

SOURCE:

Eur. Pat. Appl., 42 pp. CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
EP 483851	A1	19920506	EP 1991-118624		19911031
EP 483851	B1	19960313			
R: AT, BE, CH,	DE, ES	, FR, GB,	IT, LI, LU, NL		
JP 05004969	Α	19930114	JP 1991-267885		19911016
US 5128350	A	19920707	US 1991-780303		19911022
KR 183031	B1	19990501	KR 1991-19033		19911029
CA 2054587	A1	19920501	CA 1991-2054587		19911031
BR 9104748 .	A	19920616	BR 1991-4748		19911031
AT 135347	T	19960315	AT 1991-118624		19911031
ES 2087206	T 3	19960716	ES 1991-118624		19911031
PRIORITY APPLN. INFO.:			JP 1990-294843	A	19901031
			JP 1991-66701	A	19910329

OTHER SOURCE(S): MARPAT 117:90275

ED Entered STN: 05 Sep 1992

GΙ

AB Title compds. [I; R1, R2 = H, alkyl; W = (alkyl)alkylene, (alkyl)alkenylene, alkynylene, O, S, NH; q = 0, 1; A = (substituted) cycloalkyl, aryl, heteroaryl] were prepared Thus, Me (E)-2-(4-benzyloxy-1,3-dimethylpyrazol-5-yl)-3-methoxyacrylate was hydrogenolyzed over Pd/C and the product was acylated with 2,4-dichlorobenzoyl chloride in EtOAc containing Et3N to give title compound II. II as a 200-ppm spray gave 100% control of Erysiphe graminis on wheat.

IT 142652-29-7P 142652-61-7P 142652-62-8P 142652-63-9P 142652-64-0P 142652-67-3P 142652-70-8P 142652-71-9P 142652-75-3P 142652-87-7P

(preparation of, as agrochem. fungicide)

RN 142652-29-7 HCAPLUS

CN 1H-Pyrazole-5-acetic acid, 4-[(2-fluorobenzoyl)oxy]- α - (methoxymethylene)-1,3-dimethyl-, methyl ester (9CI) (CA INDEX NAME)

RN 142652-61-7 HCAPLUS CN 1H-Pyrazole-5-acetic acid, 4-[(2-chloro-4-fluorobenzoyl)oxy]- α - (methoxymethylene)-1,3-dimethyl-, methyl ester (9CI) (CA INDEX NAME)

RN 142652-62-8 HCAPLUS

CN 1H-Pyrazole-5-acetic acid, 4-[(3-chloro-2-fluorobenzoyl)oxy]- α (methoxymethylene)-1,3-dimethyl-, methyl ester (9CI) (CA INDEX NAME)

RN 142652-63-9 HCAPLUS

CN 1H-Pyrazole-5-acetic acid, 4-[[4-fluoro-2-(trifluoromethyl)benzoyl]oxy]- α -(methoxymethylene)-1,3-dimethyl-, methyl_ester (9CI) (CA INDEX NAME)

RN 142652-64-0 HCAPLUS CN 1H-Pyrazole-5-acetic acid, 4-[[2-fluoro-5-(trifluoromethyl)benzoyl]oxy]- α -(methoxymethylene)-1,3-dimethyl-, methyl ester (9CI) (CA INDEX NAME)

RN 142652-70-8 HCAPLUS

CN 1H-Pyrazole-5-acetic acid, 4-[(2,3-difluorobenzoyl)oxy]- α - (methoxymethylene)-1,3-dimethyl-, methyl ester (9CI) (CA INDEX NAME)

RN 142652-71-9 HCAPLUS

CN 14-Pyrazole-5-acetic acid, 4-[(2,4-difluorobenzoyl)oxy]-α(methoxymethylene)-1,3-dimethyl-, methyl ester (9CI) (CA INDEX NAME)

RN 142652-75-3 HCAPLUS

CN 1H-Pyrazole-5-acetic acid, 4-[(2,5-difluorobenzoyl)oxy]- α - (methoxymethylene)-1,3-dimethyl-, methyl ester (9CI) (CA INDEX NAME)

RN 142652-87-7 HCAPLUS

CN 1H-Pyrazole-5-acetic acid, α -(methoxymethylene)-1,3-dimethyl-4-[(2,4,5-trifluorobenzoyl)oxy]-, methyl ester (9CI) (CA INDEX NAME)

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Me CH-OMe | C-OMe | C-
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IC
     ICM C07D231-18
     ICS
         A01N043-56; C07D409-12; C07D417-12; C07D405-12; C07D401-12
CC
     28-8 (Heterocyclic Compounds (More Than One Hetero Atom))
     Section cross-reference(s): 5
IT
     142652-28-6P 142652-29-7P
                                 142652-30-0P
                                                 142652-31-1P
     142652-32-2P
                    142652-33-3P
                                   142652-34-4P
                                                   142652-35-5P
                                                   142652-39-9P
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                                    142652-38-8P
     142652-40-2P
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     142652-60-6P 142652-61-7P 142652-62-8P
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                                 142652-68-4P
     142652-70-8P 142652-71-9P
                                 142652-72-0P
     142652-73-1P
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     142652-77-5P
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                                                   142652-80-0P
     142652-81-1P
                    142652-82-2P
                                    142652-83-3P
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     142652-85-5P
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                                                 142652-88-8P
     142652-89-9P
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     142676-16-2P
        (preparation of, as agrochem. fungicide)
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L11 ANSWER 28 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 19

1992:168875 HCAPLUS

DOCUMENT NUMBER:

116:168875

TITLE:

Reaction of (6R)-6-fluoroEPSP with recombinant Escherichia coli chorismate synthase generates a stable flavin mononucleotide semiquinone radical Ramjee, Manoj N.; Balasubramanian, Shankar; Abell,

AUTHOR(S):

Chris; Coggins, John R.; Davies, Gareth M.; Hawkes, Timothy R.; Lowe, David J.; Thorneley,

Roger N. F.

CORPORATE SOURCE:

Inst. Plant Sci. Res., Univ. Sussex,

Brighton/Sussex, BN1 9RQ, UK

SOURCE:

Journal of the American Chemical Society (1992),

114(8), 3151-3

CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal LANGUAGE: English

ED Entered STN: 03 May 1992

Chorismate synthase (EC 4.6.1.4) catalyzes the conversion of AB 5-enolpyruvylshikimate 3-phosphate (EPSP) to chorismate. The enzyme requires a reduced FMN cofactor (FMNH2) for activity. (6R) -6-FluoroEPSP is a competitive inhibitor (Ki = 3 μ M) of the Neurospora crassa enzyme. With Escherichia coli chorismate synthase, (6R)-6-fluoroEPSP induced a slow (t1/2.apprx.10s), 1-electron oxidation of the enzyme-bound FMNH2 to yield a stable, N-5 flavin radical (FMNSQ). This was identified by its characteristic UV/visible and EPR spectra which also indicated a mixture of neutral and anionic forms of FMNSQ at pH 7. The failure of excess Na2S2O4 to reduce the FMNHSQ back to FMNH2 suggests an unusually low mid-point potential (Em <-550 mV) for the enzyme-FMNSQ-(6R)-6-fluoroEPSP complex. The EPR spectrum and its spin integration provided no evidence for another radical derived from the (6R)-6-fluoroEPSP or an aromatic side-chain on the protein.

IT 137234-10-7

(reaction of, with chorismate synthase of Escherichia coli, FMN semiquinone as intermediate in)

RN 137234-10-7 HCAPLUS

CN 1-Cyclohexene-1-carboxylic acid, 5-[(1-carboxyethenyl)oxy]-6-fluoro-4-hydroxy-3-(phosphonooxy)-, (3R,4S,5S,6R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

CC 7-4 (Enzymes)

IT 137234-10-7

(reaction of, with chorismate synthase of Escherichia coli, FMN semiquinone as intermediate in)

L11 ANSWER 29 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1991:674335 HCAPLUS

DOCUMENT NUMBER: 115:274335

TITLE: Inhibition of chorismate synthase by (6R) - and

(6S)-6-fluoro-5-enolpyruvylshikimate 3-phosphate

AUTHOR(S): Balasubramanian, Shankar; Davies, Gareth M.;

Coggins, John R.; Abell, Chris

CORPORATE SOURCE: Univ. Chem. Lab., Cambridge, CB2 1EW, UK

SOURCE: Journal of the American Chemical Society (1991),

113(23), 8945-6

CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal LANGUAGE: English

ED Entered STN: 27 Dec 1991

AB Chorismate synthase (I) catalyzes a reaction that involves the 1,4-elimination of phosphate and loss of the C-6 pro-R H atom in the

conversion of 5-enolpyruvylshikimate 3-phosphate (EPSP) to chorismate. 6-FluoroEPSPs were synthesized enzymically from the corresponding 6-fluoroshikimates and their interactions with Neurospora crassa I were studied. (6R)- And (6S)-6-fluoroEPSP were competitive inhibitors of I with Ki values of 3.0 and 0.2 $\mu\text{M},$ resp.

IT 137234-10-7P 137330-49-5P

(preparation and kinetics of chorismate synthase inhibition by)

RN 137234-10-7 HCAPLUS

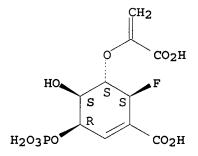
CN 1-Cyclohexene-1-carboxylic acid, 5-[(1-carboxyethenyl)oxy]-6-fluoro-4-hydroxy-3-(phosphonooxy)-, (3R,4S,5S,6R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 137330-49-5 HCAPLUS

CN 1-Cyclohexene-1-carboxylic acid, 5-[(1-carboxyethenyl)oxy]-6-fluoro-4-hydroxy-3-(phosphonooxy)-, (3R,4S,5S,6S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



CC 7-3 (Enzymes)

IT 137234-10-7P 137330-49-5P

(preparation and kinetics of chorismate synthase inhibition by)

L11 ANSWER 30 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1989:574003 HCAPLUS

DOCUMENT NUMBER: 111:174003

TITLE: Preparation of 4-Quinolinone-3-carboxylates as

medical bactericides

INVENTOR(S): Narita, Hirokazu; Todo, Yozo; Nitsuta, Jun;

Takagi, Hiroyasu; Iino, Fumihiko; Myajima, Mikako;

Fukuoka, Yoshikazu; Saikawa, Isamu

PATENT ASSIGNEE(S): Toyama Chemical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 24 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01093573	Α	19890412	JP 1987-251324	19871005
PRIORITY APPLN. INFO.:			JP 1987-251324	19871005

OTHER SOURCE(S):

MARPAT 111:174003

ED Entered STN: 10 Nov 1989

GI

 $\sqrt{}$

AB Title compds. I [R1 = H, protecting group; R2 = alkyl, alkenyl, cycloalkyl, aryl, the above groups may be substituted; R3 = ^[halo-, alkyl-, (protected) OH-, (protected) NH2-, (protected) CO2H-, or (protected) hydroxyalkyl-substituted) cycloalkyl; X = H, halo] are prepared for controlling gram pos. and neg. bacteria and antibiotic-resist bacteria. I (R1 = Et; R2 = cyclopropyl; R3 = 1-carboxycyclopropyl; X = H) (preparation given) was directly heated with flame to give 45.6% I (R1 = Et; R2 = R3 = cyclopropyl; X = H), which in EtOH was treated with N aqueous NaOH to afford 87.6% I (R1 = X = H; R2 = R3 = cyclopropyl). The latter showed min. inhibitory concentration of ≤0.05 μg/mL against Escherichia coli and Klebsiella pneumoniae.

IT 123161-42-2P

(preparation of, as bactericide)

I

RN 123161-42-2 HCAPLUS

CN Benzoic acid, 2,3,5-trifluoro-4-[1-(1-phenylethoxy)ethenyl]-, ethyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O & & \\ \parallel & & \\ E \text{tO-C} & & F \\ \hline & & \\ F & & \\ \hline & & \\ F & & \\ \hline & & \\ C \text{H}_2 & \text{Ph} \\ \end{array}$$

IC ICM C07D215-56

ICA A61K031-47

CC 27-17 (Heterocyclic Compounds (One Hetero Atom))

Section cross-reference(s): 1

IT 123160-48-5P 123160-49-6P 123160-50-9P 123160-51-0P 123160-52-1P 123160-53-2P 123160-54-3P 123160-55-4P 123160-56-5P 123160-57-6P 123160-58-7P 123160-59-8P

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123160-60-1P
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                               123160-62-3P
                                              123160-63-4P
123160-64-5P
               123160-65-6P
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                                              123160-67-8P
123160-68-9P
               123160-69-0P
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123160-72-5P
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123160-76-9P
               123160-77-0P
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                                              123160-79-2P
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123160-96-3P
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                               123160-98-5P
                                              123160-99-6P
123161-00-2P
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                               123161-02-4P
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123161-04-6P
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                                              123161-07-9P
123161-08-0P
               123161-09-1P
                               123161-10-4P
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123161-12-6P
               123161-13-7P
                               123161-14-8P
                                               123161-15-9P
123161-16-0P
               123161-17-1P
                               123161-18-2P
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123161-20-6P
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                                              123161-23-9P
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               123161-25-1P
                               123161-26-2P
                                               123161-27-3P
123161-28-4P
               123161-29-5P
                               123161-30-8P
                                              123161-31-9P
123161-32-0P
               123161-33-1P
                               123161-34-2P
                                              123161-35-3P
123161-36-4P
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                               123161-38-6P
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123161-44-4P
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123161-48-8P
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                               123161-50-2P
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                               123161-54-6P
123161-52-4P
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123161-56-8P
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                                              123176-68-1P
               123176-70-5P
                               123183-41-5P
123176-69-2P
   (preparation of, as bactericide)
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L11 ANSWER 31 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1989:492323 HCAPLUS

DOCUMENT NUMBER: 111:92323

TITLE: Preparation of (ortho-substituted)benzyl

carboxylates as fungicides

INVENTOR(S): Schuetz, Franz; Sauter, Hubert; Schirmer, Ulrich;

Wolf, Bernd; Ammermann, Eberhard; Pommer, Ernst

Heinrich

PATENT ASSIGNEE(S): BASF A.-G., Fed. Rep. Ger.

SOURCE: Eur. Pat. Appl., 31 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA	TENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΕP	310954	A1	19890412	EP 1988-116173	19880930
ΕP	310954	B1	19901122		
	R: AT, BE,	CH, DE, ES	, FR, GB,	GR, IT, LI, NL, SE	
DE	3733870	A1	19890427	DE 1987-3733870	19871007
IL	87825	Α	19920329	IL 1988-87825	19880920
CA	1315277	C	19930330	CA 1988-578569	19880927
ΑT	58522	T	19901215	AT 1988-116173	19880930
DD	274557	A 5	19891227	DD 1988-320449	19881004
JΡ	01128959	Α	19890522	JP 1988-250043	19881005
ΑU	8823464	Α	19890413	AU 1988-23464	19881006
ΑU	611485	B2	19910613		
HU	49562	A2	19891030	HU 1988-5186	19881006
HU	200587	В	19900728		
ZA	8807493	Α	19900627	ZA 1988-7493	19881006

CZ 283689 B6 19980617 CZ 1988-6663 19881006 US 4952720 A 19900828 US 1988-254696 19881007 PRIORITY APPLN. INFO.: DE 1987-3733870 A 19871007

EP 1988-116173 A 19880930

OTHER SOURCE(S): CASREACT 111:92323; MARPAT 111:92323

ED Entered STN: 16 Sep 1989

GI

$$R^3X_nCO_2CH_2$$
 $BrCH_2$ $CR^2=CHR^1$ I $CR^2=CHR^1$ II

The title compds. I [R1 = alkoxy, alkylthio, halo, NH2, alkylamino; R2 = alkoxycarbonyl, CN, CONH2; R3 = H, halo, CN, (un)substituted aryl or aryloxy, etc.; X = alkylene, haloalkylene, hydroxyalkylene: n = 0, 1] are fungicides, prepared by the reaction of the corresponding benzyl bromide II with a alkali metal, alkaline earth metal or ammonium salt of R3XnCO2H in a solvent, optionally in the presence of a catalyst. BzOH was converted into the K salt by treatment with KOH in EtOH, followed by reaction with II (R1 = OMe, R2 = CO2Me) in DMF, to give Me α -(2-benzoyloxymethylphenyl)- β -methoxyacrylate. (E)-I [R1 = OMe, R2 = CO2Me, R3 = H, Xn = (CH2)4CHMeCH2] (III) (0.025%) controlled Puccinia recondita on wheat, in pot expts. A formulation comprised III 20, Ca dodecylbenzenesulfonate 2, fatty alc. polyglycol ether 8, phenolsulfonic acid-urea-formaldehyde condensate 2, and paraffinic mineral oil 68% by weight

IT 122143-88-8P

(preparation of, as agrochem. fungicide)

RN 122143-88-8 HCAPLUS

CN Benzoic acid, 2-fluoro-, [2-(1-cyano-2-methoxyethenyl)phenyl]methyl ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

IT 122143-38-8P 122143-39-9P 122143-40-2P

122143-41-3P 122143-86-6P

(preparation of, as fungicide)

RN 122143-38-8 HCAPLUS

 Double bond geometry as shown.

RN 122143-39-9 HCAPLUS

CN Benzeneacetic acid, 2-[[(3-fluorobenzoyl)oxy]methyl]- α (methoxymethylene)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

RN 122143-40-2 HCAPLUS

CN Benzeneacetic acid, 2-[[(4-fluorobenzoyl)oxy]methyl]- α (methoxymethylene)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

RN 122143-41-3 HCAPLUS

CN Benzeneacetic acid, $2-[[(2,4-difluorobenzoyl)oxy]methyl]-\alpha-$ (methoxymethylene)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

RN 122143-86-6 HCAPLUS

CN Benzoic acid, 2-fluoro-, [2-(1-cyano-2-methoxyethenyl)phenyl]methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

```
IC
     ICM
         C07C069-734
          C07C067-11; C07C069-78; C07C103-26; C07C121-70; C07C149-273;
          C07C101-12; A01N037-36; A01N053-00; A01N037-34; A01N037-18
CC
     5-2 (Agrochemical Bioregulators)
     Section cross-reference(s): 25
IT
     122143-88-8P
                    122143-89-9P
        (preparation of, as agrochem. fungicide)
     122143-14-0P
IT
                    122143-15-1P
                                    122143-16-2P
                                                    122143-17-3P
     122143-20-8P
                    122143-21-9P
                                    122143-22-0P
                                                    122143-23-1P
                                                    122143-27-5P
     122143-24-2P
                    122143-25-3P
                                    122143-26-4P
     122143-28-6P
                    122143-29-7P
                                    122143-30-0P
                                                    122143-31-1P
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     122143-39-9P 122143-40-2P 122143-41-3P
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     122168-52-9P
        (preparation of, as fungicide)
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L11 ANSWER 32 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1989:223083 HCAPLUS

DOCUMENT NUMBER:

110:223083

TITLE:

Structure of cis-bis(pentafluorophenyl)vinylene

bis (pentafluorobenzoate)

AUTHOR (S):

Cheek, Graham T.; Dudis, Douglas S.

CORPORATE SOURCE:

Chem. Dep., US Nav. Acad., Annapolis, MD, 21402,

USA

SOURCE:

Acta Crystallographica, Section C: Crystal Structure Communications (1989), C45(4), 617-20

CODEN: ACSCEE; ISSN: 0108-2701

DOCUMENT TYPE:

Journal English

LANGUAGE:

ED Entered STN: 10 Jun 1989

The title compound is triclinic, space group P.hivin.1, with a 8.200(1), AΒ b 9.899(2), c 18.160(3) Å, α 75.75(1), β 81.40(1), and γ 73.47(1)°; dc = 1.90 for Z = 2. The final R = 0.0485

and Rw = 0.0621 for 3699 reflections. Atomic coordinates are given. compound contains no H atoms. The benzoate Ph rings of the title compound are rotated 36.2 and 36.4° relative to the carboxyl group

whereas in the nonperfluorinated parent compound these rings are

coplanar with the carboxyl groups. The average torsion angle about the double bond is also larger in the title compound

IT 120711-09-3, cis-Bis (pentafluorophenyl) vinylene bis (pentafluorobenzoate)

(crystal structure of)

RN 120711-09-3 HCAPLUS

Benzoic acid, pentafluoro-, 1,2-bis(pentafluorophenyl)-1,2-ethenediyl CN ester, (Z) - (9CI) (CA INDEX NAME)

Double bond geometry as shown.

CC 75-8 (Crystallography and Liquid Crystals)

Section cross-reference(s): 25

IT 120711-09-3, cis-Bis (pentafluorophenyl) vinylene bis(pentafluorobenzoate) (crystal structure of)

=> d his nofile

(FILE 'HOME' ENTERED AT 11:57:35 ON 14 SEP 2007)

FILE 'REGISTRY' ENTERED AT 11:57:53 ON 14 SEP 2007 16 SEA ABB=ON PLU=ON (796080-88-1/BI OR 796080-94-9/BI OR L2 110-75-8/BI OR 117731-86-9/BI OR 123270-98-4/BI OR 143789-39-3/BI OR 4522-93-4/BI OR 796080-87-0/BI OR 796080-89-2/BI OR 796080-90-5/BI OR 796080-91-6/BI OR 796080-92-7/BI OR 796080-93-8/BI OR 796080-95-0/BI OR 796080-96-1/BI OR 796080-97-2/BI) L3 STR 26 SEA SSS SAM L3 L4L5 STR L3 1 SEA SSS SAM L5 L6 L7 ' 91 SEA SSS FUL L5 L8 9 SEA ABB=ON PLU=ON L7 AND L2 7 SEA ABB=ON PLU=ON L2 NOT L8 L9 . FILE 'HCAPLUS' ENTERED AT 12:01:12 ON 14 SEP 2007

L10 1 SEA ABB=ON PLU=ON L8
L11 32 SEA ABB=ON PLU=ON L7